

# *The* **CHEMIST AND DRUGGIST**

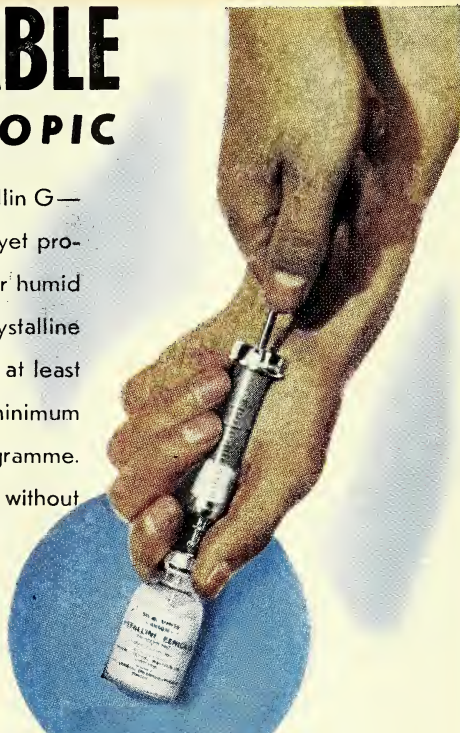
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MARCH 25, 1950

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for RETAILER—WHOLESALE—MANUFACTURER

MARCH 25, 1950

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

Single copies 1/- each. Annual subscription, which includes *The Chemist and Druggist Diary and Year Book*, 30/-

Volume CLIII

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## NEWS OF THE WEEK

**Submitted to Arbitration.**—At a recent meeting of the London members of the Union of Shop, Distributive and Allied Workers' Pharmacy Section, a decision was proved to remit the question of payment for dispensing services to conciliation.

**Excluded from Open General Licence.**—The Board of Trade announces that from March 15 aureomycin and chloromphenicol (chloromycetin) are not included in the term "drugs, medicines and medicinal preparations" which may be imported under open general licence when consigned from or originating in certain countries.

**Purchase Tax Decision.**—The Customs and Excise have decided that unmedicated corn and bunion rings, pads and plasters, medicated adhesive felt, and animal and rabbits' wool prepared for chiropody purposes are to be regarded as not chargeable with the purchase tax. Medicated corn and bunion rings, pads and plasters are, however, to remain chargeable with tax.

**Chemists Federation.**—At a meeting of the Chemists Federation Council held on

March 2, the president (Mr. E. A. Brocklehurst) in the chair, Mr. S. M. Lennox was elected *Chairman, Standards Committee*, and Mr. A. Chapman, *Chairman, Propaganda Committee*. One application for manufacturer membership was rejected and another was deferred for further inquiries. An application for wholesaler membership was rejected. Other matters included propaganda work and a report on the work undertaken by the outdoor representative.

**Drug Trade Appeal Fund.**—The biennial meeting of subscribers and trustees of the Drug Trade Appeal Fund was held in London on March 2. Mr. Arthur Mortimer, O.B.E., presiding. The report, which indicated that no applications falling within the rules had been received during the period, was adopted. The following were appointed as *Trustees*:—Messrs. J. C. Hanbury, C. Mervyn Hill, L. Johnson, T. Marns, A. R. Melhuish A. Mortimer and E. T. Neathercoat. The trustees appointed the following officers: *Chairman*, Mr. J. C. Hanbury, *Treasurer*, Mr. L. Johnson, *Secretary*, Mr. C. W. Robinson. Tribute



was paid to the memory of Mr. C. A. Hill who had died since the previous meeting.

**S. African Cylinder Markings.**—A code for the marking of gas cylinders in South Africa has been issued by South African Bureau of Standards, Pretoria. Coloured bands painted over a basic colour have been avoided wherever possible, but for mixtures of gases, when more than one colour is unavoidable, the bands are to be painted vertically, and plainly visible on the neck and collar of the cylinder—a factor of particular importance with anaesthetic gas cylinders (which are frequently placed in a box apparatus during use). The code recommends that no cylinder should be encased in any covering or apparatus that will obscure the markings.

**Exhibit at Toronto Fair.** — Amongst British firms which will be exhibiting at the Canadian International Trade Fair at Toronto, May 29 to June 9, is W. Edwards & Co. (London), Ltd., Lower Sydenham, London, S.E.26. A pre-view of the equipment which is to be exhibited was on view at the company's premises on March 21-22. It included centrifugal freeze-drying units of varied sizes which can be used in the laboratory, hospital, or works for full-scale manufacturing purposes. Materials dried in the frozen state (as, for example, blood plasma) are left in a skeletal form which is highly hygroscopic and easily reconstituted. Accessories such as the rotary and diffusion pumps used to obtain low pressures, and vacuum measuring instruments, were also demonstrated. At present the market for such plant in Canada is exclusively supplied by U.S. manufacturers.

**National Formulary Amendment.**—The First Amendment (1950) to the National Formulary brings certain formulas into line with the preparations under the same title in the British Pharmaceutical Codex, 1949. The following alterations should also be noted:—

*Compound tablets of colocynth and jalap* are to be sugar coated.

*Consersus talci boricus, B.P.C.*, which appears in the general section of the National Formulary, has been added to the Infants' section.

*Purified talc, sterilised.* When talc is an ingredient of the dusting powders given in the National Formulary (including (b) above), purified talc, sterilised, is to be used. Chemists may dispense orders according to the N.F. or the Amendment until June 1. It is unnecessary to endorse the prescription.

## LOCAL NEWS

**N.H.S. Problems Discussed.**—A joint meeting of the Isle of Thanet Branch of the National Pharmaceutical Union and Pharmaceutical Society was held at Ramsgate on February 20 when Mr. Wright, Ph.C. (assistant-secretary, N.P.U.) gave an address on National Health Service problems. Mr. Wright said that better sorting and counting of prescriptions would help the pricing bureaux to quick pricing. He thought there was little hope yet of more bureaux being opened or that prescriptions would be priced in full.

**South Shields Social Evening.**—A social evening of the South Shields Pharmacists' Association held on March 13 opened with a whist drive, the prizes for which were given by Wilkinson & Simpson, Ltd., Newcastle-on-Tyne, and presented by Mrs. I. Coulthard. The chairman of the Association (Mr. M. S. Pearson) welcomed the guests among whom were Mr. Seymour Richardson (chairman of the local Executive Council). Messrs. W. A. Power and G. I. Coulthard were Masters of Ceremony at the dance, and Miss Gill and Mr. A. Willis provided musical items during the evening.

**Chester Branch Dinner.** — About seventy members and friends attended the annual dinner of the Chester Branch of the Pharmaceutical Society recently, which Mr. Owen Pritchard presided. Mr. B. A. Williams (chairman, Chester Executive Council), proposed the toast "To the Pharmaceutical Society." He referred to the co-operation and goodwill shown by local Pharmaceutical Committees in meetings held with the Executive Council. Mr. C. H. Crawshaw (a past-chairman, Birkenhead Branch of the Society), spoke of the formation of lay local advisory committees, and indicated their function as sounding-board for local opinion on the administration of the health scheme. Other speakers were Messrs. J. Veitch, K. Kenyon, A. W. Austin (secretary), and Mrs. P. L. Roberts.

**First Showing of New Film.**—The first public showing of the film "Birth of a Drug" (see *C. & D.*, February 11, p. 189) was given in Bognor Regis on March 7 by members of the Chichester and Bognor Regis Branch, Pharmaceutical Society. The film was introduced by Mr. B. C. Bryan, Ph.C., who traced the developments in medicine during the 19th century and



ent on to speak of the foundation of chemotherapy laid by Ehrlich; and the progress, originating in the dyestuffs industry, that led to the production of numerous synthetic organic substances which find valuable applications in medicine, and change, he said, from the old conception of prescribing was now complete, for no longer was the symptom treated but an attempt was made to eliminate the causation by means of a compound scientifically designed for that purpose.

**Aberdare Annual Meeting.**—Amongst the items discussed at the annual meeting of the Aberdare and Merthyr Branch of the Pharmaceutical Society on March 7, were the resolutions for the Branch Representatives' meeting in May. Two members were nominated to attend. The meeting also discussed pharmaceutical education in Wales and members were asked to attend a meeting called by the Cardiff Pharmacists' Association on March 30 to form a working committee on education. The following officers were elected for 1950:—*Chairman*, Miss G. Humphries; *Vice-chairman*, Mr. B. D. Walters; *Junior Vice-chairman*, Mr. D. L. Emrys Evans; *Treasurer*, Mr. A. B. Andrews; *Secretary*, Mr. H. Neil Thomas, 25 Whitcombe Street, Aberdare, Glam; *Assistant Secretary*, Mr. T. James. Miss Humphries was the first woman elected to the chair since the inception of the branch. The annual "Golf Day" is to be held on June 8.

**N.P.U. Secretary at Plymouth.**—At a special joint meeting of the Plymouth Branches of the National Pharmaceutical Union and the Pharmaceutical Society on March 8, Mr. H. Noble (secretary, N.P.U.) gave an address on the National Health Service, and man-power in pharmacy. The meeting was under the joint chairmanship of Messrs. D. Hawkins and A. G. M. Madge. During the course

of his address Mr. Noble said that the averaging of prescriptions was within the limit of 5 per cent. when covering four months or more. He believed that the high educational standard was acting as a retarding factor to new entrants in retail pharmacy. Return of empty medicine bottles locally was 5-20 per cent. A national survey on the return of bottles was being carried out. In the evening an informal dinner was held at which the guests were Mr. and Mrs. Noble. On behalf of the branches, Mrs. Madge presented a bouquet to Mrs. Noble and a "Mayflower" plaque to Mr. Noble as a souvenir of their visit to Plymouth.

**President at Weston-super-Mare.**—A dinner and dance, organised by the Somerset County Pharmaceutical Association, was held at Weston-super-Mare on March 9. Among the guests were the president of the Pharmaceutical Society (Mr. H. Clement Shaw), and Mrs. Shaw; Mr. H. Holmes, Torquay (representing the National Pharmaceutical Union), and Mrs. Holmes; and Mr. R. W. Feltham (Clerk to the Somerset Executive Council), and Mrs. Feltham. Mr. W. R. Maunder, who was in the chair, proposed the toast "The Pharmaceutical Society." He suggested that the Society's present educational standard was too high. Mr. Shaw replied, and said that part of the cost of education was money spent on research. The man-power question in pharmacy was under consideration. Mr. Gosling proposed "The National Pharmaceutical Union," Mr. Holmes, replying. Mr. J. Chalmers (chairman, Weston-super-Mare Branch) toasted "The Visitors," and Mr. R. W. Feltham, in his reply, regretted the absence, through illness, of the chairman of the Association (Mr. Walter Deacon), with whom he had been associated in pharmacy for twenty-five years.

#### ANTIBIOTIC RESEARCH STATION.

Antibiotic research laboratories and pilot plant in the process of being set up by Glaxo Laboratories, Ltd., in a mansion at Sefton Park, Stoke Poges, Bucks, will house, on the ground floor, three main chemistry laboratories, refrigeration and balance rooms, and accommodation for ancillary services,



**Coventry Branch Dinner.**—The annual dinner of the Coventry and Warwickshire Branch of the Pharmaceutical Society was held in Coventry on March 2, the vice-chairman (Mr. O. T. Hall) in the chair. Among the guests who attended were the president of the Society (Mr. H. Clement Shaw), the mayor and mayoress of Coventry, the chairman of the local division, British Medical Association, chairman, Coventry Executive Council, and Messrs. T. Heseltine and G. H. Hughes (members of the Society's Council). "The City of Coventry" was proposed by Mr. Hall who mentioned that local chemists had dispensed over one million prescriptions during the previous year and provided a twenty-four-hour service of a type unique in this country. In reply, the mayor sympathised with the desire of many chemists to improve their premises and facilities, but added that houses must come first. Mr. W. H. Green proposed "The Pharmaceutical Society" and Mr. Shaw, in reply, referred to the need for a greater number of students to combat staff shortages. He made reference also to the shortage of space at the Society's headquarters for displaying the latest developments in pharmacy. "The National Pharmaceutical Union" was proposed by Mr. Buckler and Mr. Heseltine replied. He said there was an economy drive at the Ministry of Health, and concessions were impossible at the moment. Mr. Bonham proposed "The Visitors," Mr. G. H. Hughes, Colwyn Bay, responding. The toast-master was Mr. A. W. M. Bales.

**Croydon Dinner and Presentation.**—About 160 members and guests attended the annual dinner of the Croydon Branch of the Pharmaceutical Society and Croydon Pharmacists' Association held locally on March 8. In the absence through illness of the branch chairman (Mr. A. M. Wood), the Association president (Mr. A. W. Bennett) occupied the chair. The toast "The Croydon Branch of the Pharmaceutical Society" was proposed by Mr. H. E. Chapman (secretary, Proprietary Articles Trade Association and a past-chairman of the Branch). Mr. Chapman said the Croydon Branch and Association had been for many years an active organisation, and he felt it a privilege to have been chosen to submit the toast. He reminded members engaged in retail business of the menace to their interests that lay in the Government's announced policy regarding price-

protection, and asked for their support in the efforts now being made to ensure the preservation of the existing system. Mr. Bennett, acknowledging the toast, was sure the members appreciated the seriousness of the position that might have to be faced, and would do their best to help. A pleasing interlude in the programme was a presentation to the Branch and Association secretary (Miss A. McCarthy) by Mr. D. J. Williams, "father" of the Association. Mr. Williams said that Miss McCarthy had given many years of hard and devoted service to the joint organisations. Unknown to the recipient, members had subscribed to present something which they hoped would always remind her of the esteem and affection in which she was held. Mr. Williams then handed Miss McCarthy a diamond cluster brooch set in platinum, inscribed "To Miss A. McCarthy from Croydon chemist friends, 1950," and the balance of the subscription fund. Miss McCarthy expressed her thanks for and appreciation of the gift. The dinner was followed by a cabaret and dance.

## IRISH NEWS

**Health Services Amendment Bill.**—The Health Services Acts Amendment Bill which received a second reading in the Northern Ireland House of Commons on March 14 gives the Ministry of Health and Local Government general powers to charge for services under the Health Service. Although it is primarily designed to cover the charge of up to one shilling on prescriptions, the Minister (Dame Dehra Parker) said powers sought were widened so that appropriate action could be taken in other services.

**Belfast Whist Drive.**—The Ulster Chemists' Association held a whist drive in aid of the Northern Ireland Chemists' Benevolent Fund in the headquarters of the Pharmaceutical Society of Northern Ireland in Belfast on March 15. The arrangements were made by the Association's social committee, consisting of the president (Mr. J. Caldwell), vice-president (Mr. C. A. Quinn), Misses C. E. Culbert and L. M. Forrest, and Mr. W. H. Boyd. The prizes were presented by Yardley & Co., Ltd., London, J. Grossmith and Co., Ltd., London, Thomas McMullan & Co., Ltd., Belfast, and R. J. Groves & Son, Belfast, together with members of the social committee. The president thanked the donors of prizes.



## TOPICAL REFLECTIONS

### Cost of the N.H.S.

The recent House of Commons debate on the supplementary estimates for the National Health Service (pp. 338, 343), may be described as registering information without adding substantially to it. Every good citizen wishes the service to be a success but not an extravagance. Ways must be found of reaching this objective. One speaker in the debate pointed out that, assuming a limit to what can properly be raised by taxation, we are up against "the crucial issue of the priority of social services in relation to limited resources." Some class or classes of people must, accordingly, modify their ideas of what N.H.S. prescriptions should include; and prescribers who have been thoughtlessly generous will have to heed the precepts of justice. Since your issue of March 18 went to press the Proprietary Association of Great Britain has circulated a statement (see p. 380) on the reference to a "racket" made by the Minister of Health during the debate mentioned. The Association urges that, if the prescribing of "colourful imitations of new products" is officially encouraged, "a lack of incentive to promote new preparations" will develop. This is well known in responsible professional and commercial circles, if not at Whitehall. Another statement qualifying a ministerial reference has been sent out by the Chemical Ware Manufacturers' Association: it relates to the bulk purchase of glassware for hospitals. It will not be easy for any promoters of the National Health Service who have indulged in a lavish policy to exchange that policy for one that will include judicious frugality; but the effort will need to be made.

### Statistics in Biological Assay

Statistics, like political economy, can be dismal. But the address of Dr. J. O. Irwin, abstracted on pp. 345-47, is of a quite different character. Many readers of THE CHEMIST AND DRUGGIST must have wondered what margin of error was usually accepted in biological assay and how it was determined. Dr. Irwin has set forth the procedure in lucid and attractive sentences. His specimen assay of vitamin D, in which litters of rats are used, is highly interesting. Much preliminary work has been necessary before sound conclusions could be reached on such factors as variation within litters and variation between litters,

The lecturer proceeded to discuss rabbits in relation to sensitivity to insulin. International standards for vitamin D and vitamin D<sub>2</sub> also came under review. This part of the address dealt with a matter of international importance. It will be noticed that the United States Pharmacopœia Advisory Board participated in the scheme, and that thirty-three laboratories, nine of which were in Great Britain, contributed data. Results of twenty-nine rat assays and twenty-five chick assays were received. As Dr. Irwin remarked, the adoption of one standard of reference for all vitamin D determinations would simplify matters for clinicians, pharmacists, veterinarians and farmers; and it is satisfactory to learn that the World Health Organisation has announced its agreement to the adoption of vitamin D<sub>2</sub> as an international standard.

### Perfumery Federation Report

The fourth annual report of the Toilet Preparations and Perfumery Manufacturers' Federation of Great Britain (p. 349) describes the past year, with cautious optimism, as "one of continued liberalisation." The British perfumery industry will, we read, "not be unduly perturbed" by the restoration of strong foreign competition during the year. The report goes on to note, with justice, that the industry "would welcome a similar liberalisation of the trade in other countries." One-way traffic is not a system that can be permanently applied to international trade. It will not escape notice that the Federation has been hammering away at the Board of Trade with the object of obtaining assistance manifestly due, if not overdue. Having regard to the relatively small quantities of raw materials used in the manufacture of high-priced products, the case for official promotion of sales of these products in the export trade is a strong one. Turning to the home trade, the vexed question of changes in rates of purchase tax has come up again. It is stated that, unless a solution of the problem is found, many small firms and some of the larger will have to suspend workers during the three months preceding the introduction of a Budget. Existing methods of purchase-tax collection are another grievance only too familiar in the trade. This is a formidable list of troubles—and there are others.

**Xrayer**



## THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

WHEN the new Minister of Fuel and Power (MR. PHILIP NOEL-BAKER) was asked by BRIGADIERS LOW and MEDLICOTT whether he would grant commercial travellers an increase in the supplementary petrol ration, or allow them petrol according to the area they covered, he replied that, after full discussions a year previously between Mr. Alfred Robens (Parliamentary Secretary) and the associations representing the commercial travellers, and with the Association of British Chambers of Commerce, the associations had accepted the Minister's proposals for a substantial increase in the petrol allowances. Much as he sympathised with the questioners' purpose, he could not agree to any further increase at present.

Would not the Minister have another talk with the associations concerned, asked BRIGADIER LOW. Did he not realise that, under the present system of rigid attention to a rigid maximum, the result might often be an increased number of commercial travellers and an increased number of cars to draw the ration, with increased total petrol used? To this Mr. Noel-Baker replied that it had been among the points discussed and the "points" plan proposed by the associations had not been found workable.

When MR. ORR-EWING asked whether it was not time that the Minister reviewed the matter with the associations concerned, he received the reply that commercial travellers were now receiving, in effect, one-third more petrol than they had been receiving a year previously. In the six summer months they had also the summer allowance. To hold out hopes of a further increase would be premature.

### Leasehold Reform to Await Report

The Attorney-General was asked by MR. BARNETT JANNER whether he was aware that there was a continual increase in cases of hardship resulting to small shopkeepers, tenants of offices and leaseholders on the termination of their tenancies, whether he would take steps to obtain a final report speedily from the Leasehold Committee; and whether, pending the receipt of the Committee's final report he would introduce legislation to deal with the hardships of tenants of business premises referred to in the interim report.

THE ATTORNEY-GENERAL (MR. Hartley Shawcross) replied: The Government pro-

pose to defer reaching a decision on the proposals contained in the interim report until they have had an opportunity of considering any recommendations that may be made in the Committee's final report. The Committee are now drafting their final report, and will submit it before long.

Shopkeepers' difficulties were also raised with the Scottish Office, when MR. HECTOR MCNEIL was asked by MRS. JEAN MANN if he was aware that shopkeepers were again receiving notice to quit in view of the expiry of the Act under which shopkeepers were protected, and what steps he was taking to extend the Act beyond Whit Sunday, 1950. MR. MCNEIL replied: Section 3(3) of the Tenancy of Shops (Scotland) Act, 1949, provides that the Act shall continue in force until December 31, 1950, and shall then expire except as regards applications for renewal of tenancy presented before that date and determinations thereon. The position thereafter will be considered in the light of the final report of the Guthrie Committee on the Tenure of Shops and Business Premises in Scotland, to be published shortly.

He was instructed that the court was empowered to give an order extending the date beyond the termination of the Act.

### B.C.G. Vaccine

MR. JOHN RANKIN asked the Secretary for Scotland on March 14 what supplies of Bacillus Calmette Guerin vaccine were now reaching Scotland from Denmark. MR. HECTOR MCNEIL replied that the technical production difficulties which had led to the suspension of supplies in January had now been overcome, and imports would therefore be renewed at once.

### Purchase Tax and the Budget

The Chancellor of the Exchequer was asked on March 14 whether he would give an undertaking that, in drafting the Budget resolutions, he would do so in a way that would permit of discussion in detail of the purchase tax rather than preventing all such discussions, as in 1949. "I cannot anticipate my Budget statement," replied the Chancellor.

### Politics in Company Reports

MR. NORMAN SMITH asked the Chancellor on March 14 "whether he was aware that in certain recent instances, chairmen's speeches to annual meetings of company

shareholders, of a political and not of a business character, had been printed in newspapers at the advertisement rates charged for company meeting reports; and he would disallow as expenses for taxation purposes the cost of such advertisements. THE CHANCELLOR replied that expenditure by traders for political purposes was not permitted to be deducted in computing profits for the purposes of income tax or profits tax and any claim to deduct such expenditure would be contested.

### The Shilling on Prescriptions

The Minister of Health was asked by MR. CHRISTOPHER HOLLIS, on March 16, whether it was still proposed to proceed with the plan for charging one shilling on prescriptions, and if he had now decided what was the definition of a prescription. MR. ANEURIN BEVAN replied that he was not in a position to add anything to previous announcements, and that the matter would be dealt with in the Budget.

### Liver Enzymes

MR. RAYMOND BLACKBURN, in a written question on March 16 asked the Lord Pre-

sident of the Council what research had been conducted by or under the supervision of the Medical Research Council into the use of lipotropic agents for treatment of cirrhosis of the liver and undue obesity, and when such agents would be available for general use. MR. HERBERT MORRISON replied that investigations into the action of those substances were being made by members of the Council's staff both in this country and in the tropics. Ordinary diets contained ample amounts of the substances but poor diets might contain insufficient amounts, and then cirrhosis of the liver might follow. In conjunction with a rectified diet, the substances had been used in the treatment of the condition. They had no relation to the treatment of obesity. They were available.

### Reports on Monopolies

MR. HAROLD WILSON (President of the Board of Trade) told MR. ELWYN JONES, on March 16, that no reports had yet been received from the Monopolies Commission, "but I hope to have those on dental goods . . . in the summer."

## FIRST REPORT ON MONOPOLIES

THE first annual report by the Board of Trade on the working of the Monopolies and Restrictive Practices (Inquiry and Control) Act, 1948, recently published, shows that chemists' goods, laboratory equipment, and teased oil are among products that have been suggested for reference to the Commission appointed under the Act, as being goods subject to "restrictive practices which would affect competition in distribution." Chemicals, medical and industrial gases, and weighing machines and scales, are among the products suggested for reference because they are considered to be subject to "monopolistic control" within the scope of the Act.

### Where Decision Rests

The report states that mention of industries does not carry with it "any degree of adverse imputation." It is for the Board to decide whether any monopoly or restrictive arrangement, if shown to exist, works against the public interest. Most of the suggestions for reference have come from people who have found themselves unable to enter a particular trade or who cannot obtain from suppliers the rate of discount to which they consider themselves entitled. "There is a strong family likeness between

the many examples of this type of request," states the report. "The usual situation alleged in these cases is much as follows. Agreements are made between an association of merchants or distributors and an association of manufacturers whereby new entrants to the trade or non-members of the merchants' body are either unable to obtain supplies from any member of the manufacturers' association or are able to obtain them only on much less favourable terms than are accorded to members of the distributors' association. In many cases, it is not easy to join the distributors' association; new members are either not wanted at all or their admission or exclusion is governed by reference to arbitrary definitions of what constitutes a 'real' wholesale or a 'competent' practitioner of a trade. In some of the arrangements the qualification for 'full discount' terms may include an undertaking on the part of the distributor to stock types or quantities of goods which he does not really want, or to buy only from members of the manufacturers' association." During 1949 the Commission (which employs a staff of 37) spent £24,518. Salaries and wages (including £5,000 for the chairman, Sir Archibald Carter) accounted for £21,539.

## NEW COMPANIES

**HARLAND & CO. (LONDON), LTD. (P.C.).**—Capital £100. To carry on the business of import and export merchants, dealers in chemicals, etc. John C. Harland and Winifred E. Harland, directors. R.O.: 23 Bedford Row, London, W.C.1.

**B.G.P. (COSMETICS), LTD. (P.C.).**—Capital £1,000. To carry on the business of manufacturers and of dealers in cosmetics, toilet requisites, etc. Frank C. Jeffree and Sidney C. Forsdike, directors. R.O.: 37 Chesham Place, London, S.W.1.

**P. TAYLOR (CHEMISTS), LTD. (P.C.).**—Capital £2,000. To carry on the business of wholesale or retail consulting chemists, etc. Percy Taylor, M.P.S., Jean Cohen and Harry Cohen, directors. R.O.: 29 Buckingham Street, London, W.C.2.

**PETER BARRETT & Co., LTD. (P.C.).**—Capital £3,000. To carry on the business of wholesale and retail chemists, opticians, etc. Peter R. Barrett, Arthur E. Barrett, George House, Arthur R. Banks and Rosemary Barrett, directors. R.O.: 92 Somers Road, Portsmouth.

**BODDY & GREAVES, LTD. (P.C.).**—Capital £1,000. To carry on the business of wholesale and retail chemists and druggists, opticians, etc. William H. Greaves, M.P.S., and Harold W. Boddy, M.P.S., directors. R.O.: 16 Cunningham Avenue, Kinson, Bournemouth.

**A. G. WRENCH (1950), LTD. (P.C.).**—Capital £5,500. To carry on the business of pharmacists, druggists, etc. Arthur G. Wrench, M.P.S., Florence A. Wrench, Robert Swindells, M.P.S., and Edith Swindells, directors. R.O.: 132 Cherry Orchard Road, Croydon, Surrey.

### Company News

**BRITISH CHEMICALS & BIOLOGICALS, LTD.**—Dr. G. M. Dyson and Mr. A. F. Lawry have resigned from the board.

**WILLOWS FRANCIS PHARMACEUTICAL PRODUCTS, LTD.**—An interim dividend is recommended of 4 per cent. less tax for the nine months ended June 30. The company was made public in November 1949.

**MONSANTO CHEMICALS, LTD.**—Net profit for 1949, after taxation, amounted to £279,499, against £363,898 in the previous year. A final ordinary dividend is recommended of 30 per cent, making 45 per cent., less tax, for the year, the same as in the previous year but on larger capital.

Dr. W. D. Scott has been appointed deputy managing director.

**EVANS MEDICAL SUPPLIES, LTD.**—Treasury consent has been obtained for an offer to stockholders of 615,682 ordinary shares of 5s. each at 5s. 6d. per share in the proportion of one new share for every 5s. ordinary stock held. The offer remains open until April 5. Proceeds are to be used towards cost of new buildings at Speke and to provide additional working capital.

**F. W. HAMPSHIRE & Co., LTD.**—Net profit for 1949, before taxation, amounted to £142,325, against £138,123 in the previous year. A final dividend is recommended of 10 per cent, plus bonus of 6 per cent, on capital increased by 200 per cent. This payment, together with the interim dividend of 20 per cent, (the same already paid, makes the total cash distribution for 1949 the same as in the previous year.

### Compulsory Liquidations

**J. ELLIS & Co. (LONDON), LTD.**, powder puff manufacturers, 70 Finsbury Pavement London, E.C.2. Liquidator: Leslie William Bird, 117 Newgate Street, London, E.C.1.

**NO-AKE MANUFACTURING CO., LTD.**, wholesale druggists' sundriesmen, Melville Street, Wombwell, Yorks. Liquidator: Percy Cardwell, 93 Queen Street Sheffield, 1.

## FIFTY YEARS AGO

### Getting a Minister to Act

(From the C. & D., March 24, 1900).

O SANCTA simplicitas! That there should be people who take as final the first word of a Minister in charge of a Government Bill! That anybody should suppose that "Mr. Ritchie's attitude" when he declared it was impossible that Clause could be altered was anything but conventional! Why, Ministers always speak in that way to outsiders who venture into their presence. If Messrs. Martindale and Carteighe had each had an M.P. with him, Mr. Ritchie would have promised that the matter should be carefully looked into; if a dozen M.P.s had attacked him, he would have asked them to pass the second reading of the Bill and promised that he would consider any amendment in Committee while if the revolt became at all general he would draft an alternative clause.



## LEGAL REPORTS

**Attack on Pharmacist.**—At Manchester Assizes, on March 7, Ronald Williams, aged twenty-nine, of no settled address, pleaded not guilty to a charge of attempted murder of Mr. John Ewbank, M.P.S., Great Homer Street, Liverpool, but guilty to other charges of wounding with intent to inflict grievous bodily harm and assault with intent to rob. He was sentenced to five years' imprisonment on each charge.

**Alleged Breach of Contract.**—In the King's Bench Division, London, recently, Laurence Fraser & Co., Ltd., produce merchants, Covent Garden, sued Laurence Froce, trading as the Russell Square Stores, for damages for alleged breach of contract in the supply of teased oil. Mr. Justice Harman said he found the oil was something other than teased oil. His finding was that the plaintiffs should be awarded damages of £480.

**Theft from Chemist.**—At Birmingham Magistrates' court on March 17, Joyce Doris Smith, a nineteen-year-old shop assistant, 15 Castleford Road, Sparkhill, Birmingham, was charged with stealing £100 from her employer, Albert Frank Hill, M.P.S., 20 Gravelly Hill, Erdington. Following complaints, police officers made purchases at the shop, using marked notes. When challenged, the girl admitted taking the notes from the till, and told the officers that since October 1949 she had taken about £100. She was placed on probation for two years and ordered to pay back £30 as compensation.

## BUSINESS CHANGES

MR. JOHN RIORDAN, M.P.S.I., has opened a pharmacy at 31 Bandon Road, Cork.

NEW ERA LABORATORIES LTD., is the new title adopted by the New Era Treatment Co., Ltd., Cecil House Holborn Viaduct, London.

BIDDLE, SAWYER & CO., LTD., 4 Grafton Street, London, W.1, are transferring their warehouses to 19 Wagner Street, Ilderton Road, Old Kent Road, London, S.E.15, on April 1.

G. B. KENT & SONS, LTD., 24 Old Bond Street, London, W.1, have appointed Mr. F. E. W. Lanning as their representative in the West End of London. An appointment is to be made shortly for the West of England territory, where Mr. Lanning formerly represented the company.

## BRITISH PHARMACEUTICAL CONFERENCE GRANTS

THE Pharmaceutical Society have again placed at the disposal of the British Pharmaceutical Conference Executive the sum of £500 to be used to further the work of the Conference during 1950. The Executive have decided to use this money to encourage young pharmacists and research workers to attend the meeting of the Conference to be held in Glasgow, September 4-8. Applicants complying with the requirements set out below will be given one full book of Conference tickets and one third-class return railway ticket to Glasgow from the station nearest the applicant's usual residence.

Applicants must be pharmacists, or other members of the British Pharmaceutical Conference except student associates having no scientific degree or similar qualification.

Students who are to take during the summer an examination which, if successful, would bring them within the above categories, may apply now, but any award is to be subject to the applicant passing the examination before the Conference.

Applicants must be under 27 years of age on the first day of the Conference (except those who served in the armed forces, or who were engaged full-time in a comparable form of national service during the recent war; in those cases the age limit will be extended by the period of such service) and must not have received an award on more than one previous occasion.

Applications must be sent to the General Secretaries, British Pharmaceutical Conference, 17 Bloomsbury Square, London, W.C.1, so as to be received not later than June 30, giving the following information: Full name, date of birth, period of national service during the recent war, the name of the railway station from which the ticket is required and the fare from that station to Glasgow, and a brief statement of the applicant's career including qualifications and the dates on which they were obtained.

A letter of recommendation from the Secretary of the Branch of the Pharmaceutical Society to which the applicant belongs, or the head of the pharmacy department of a college or school, or, in the case of a non-pharmacist, a responsible officer of the organisation in which he is employed, should accompany the application.

Every applicant will be advised of the result of his application as soon as possible after receipt, so as to enable him to make any necessary holiday arrangements. Successful applicants must arrange their own accommodation and details of what is available together with a Conference programme will be ready for distribution at an early date. Books of tickets and refunds of railway fares will be issued later.

## DEATHS

**Cox.**—At Hove, Sussex, on March 18, Mr. Edward E. Cox, chairman of Arthur Cox & Co., Ltd., manufacturing chemists, Brighton, aged seventy-three. Son of the late Alderman H. Cox (founder of the business) he joined the company in 1894, and during his service with it made many improvements to pill-making machinery. At the time of his death there were three generations of his family in the business, his grandson having joined the company in 1950. Mr. Cox will be remembered locally as a keen golfer and an enthusiastic yachtsman. In his early days he sailed twice round the world in a square rigger.

**FAIRWEATHER.**—On March 4, Mr. James Young Fairweather, M.P.S., 363 Sydenham Road, London, S.E.26. Mr. Fairweather qualified in 1894.

**GIBBS.**—Suddenly, on March 16, Mr. J. R. Gibbs, sen., chairman of J. R. Gibbs, Ltd., Paignton, aged seventy-two.

**GWINN.**—At his home, 150 Long Lane, Bexleyheath, Kent, Mr. Walter Gwinn, M.P.S., aged seventy-six. Mr. Gwinn leaves a son and three daughters.

**HAWORTH.**—At Birmingham, on March 18, Professor Sir Walter Norman Haworth, D.Sc., Ph.D., a past-president of the Chemical Society, and a former Vice-principal of Birmingham University. Professor Haworth first synthesised vitamin C. Born at Chorley, Lancs, he graduated in chemistry at the Universities of Manchester and Göttingen, Holland. In 1920 he



was appointed to the chair of organic chemistry, Armstrong College, Newcastle, and in 1925 became professor of chemistry and director of the department at Birmingham University. There he studied the structure of molecules of sugars and related carbohydrates. With E. L. Hirst he proved that the structure of the simple glycosides contains a six-membered oxide ring, and he later demonstrated that the more labile glycosides contain a five-membered ring. For an account of the relations between

the various sugars he received the Longstaff medal of the Chemical Society in 1930. He received the Royal Society Royal medal in 1931-32 and Davy medal in 1934. In work on the synthesis of vitamin C he determined the chemical constitution of a specimen of the vitamin isolated by Szent-Györgyi and proved that it was a definite chemical substance, which he named ascorbutic acid. He devised a synthesis for which a patent was procured and vested in the Department of Scientific and Industrial Research. He shared the Nobel prize for chemistry in 1937 and was the first British chemist to receive a Nobel prize for classical organic chemistry. He was knighted in 1947. In 1928 he was elected a Fellow of the Royal Society, and became a vice-president of the Society in 1948.

**JOHNSON.**—On December 16, Mr. Charles Ernest Johnson, 53 Dafforn Road, formerly of 18 Upper Tooting Road, London, S.W.17. Mr. Johnson qualified as a chemist and druggist in 1886.

**LOUGHRAN.**—On February 28, Mr. Andrew Francis Loughran, M.P.S., 69 Wimpey Way, Great Barr, Birmingham. Mr. Loughran was registered as a chemist and druggist under Section 4 of the Poisons and Pharmacy Act, 1908. He was recently appointed manager of the branch of W. H. Wilkins, Ltd., 1 Bridbrook Road, Perry Barr, Birmingham, 22.

**MCKENZIE.**—On January 5, Mr. Arthur McKenzie, M.P.S., c/o W. Kay, 40 High Street, Dover. He qualified in 1912.

**RANSOM.**—On February 23, Mrs. Priscilla Maud Ransom, Gosmore House, Hitchin, aged 79, wife of the late Mr. Francis Ransom, Ph.C. (a director of William Ransom & Son, Ltd., and only son of William Ransom, the founder of the company). Until Mr. Ransom's death in 1935 Mrs. Ransom shared many of her husband's business interests and was well known in the trade. The cremation was at Golders Green on February 28.

**SMITH.**—At his home at Brighton on March 16, Mr. H. G. Smith, for many years senior representative of Johnsons & Hendon, Ltd., aged seventy-eight. Mr. Smith had served with the company continuously for sixty-one years. A former colleague writes: "He will be mourned by the many friends . . . particularly for his unfailing courtesy and good humour."



## PERSONALITIES

SIR PHILIP MANSON-BAHR, C.M.G., D.S.O., M.D., F.R.C.P., D.T.M. & H., has accepted the post of director of the London Cinchona Bureau at 10 Princes Street, London, S.W.1. He succeeds the late Professor Charles A. Bentley, C.I.E.

MR. R. C. KAYE, B.Pharm., Ph.C., senior lecturer in pharmaceuticals, Bradford Technical College, has been awarded the Ph.D. degree, University of London, for a thesis, "A Polarographic Study of Free Radical Formation in the Acridine Series in its Relation to Antibacterial Action." Dr. Kaye qualified in 1937 after studying at the College, and carried out the research there



on which his thesis was based.

MR. H. C. THOMAS, M.P.S., president of the Aberdare Valley Pharmaceutical Association, has been elected president of the Aberdare Chamber of Trade, 1950-51. Mr. Thomas, who qualified in 1926, is manager of the Aberdare branch of Boots, Ltd. He takes a keen interest in the Aberdare Thursdays Sports Club.

MR. ARTHUR REGINALD ANDREW, Finchley, London, N.3, is retiring from the service of Zenobia, Ltd., Loughborough, Leics, on March 31, after completing a total of fifty-two years as a representative. He has been with his present company for twenty-one years and is its senior representative. Mr. Andrew owns a terrier dog (well known to his business friends) whose performances of "mathematical calculations" have been broadcast in a programme of the B.B.C.

THE following have been elected Fellows of the Royal Society: Professor C. A. Coulson, King's College, London (for his application of quantum theory to chemical problems); Mr. W. J. Elford, National Institute for Medical Research, London (for researches on viruses, particularly on methods of determining virus size); Professor E. R. H. Jones, University of Manchester (for researches in the fields of steroids, carotenoids and in the chemistry of acetylene); Mr. A. J. P. Martin, National

Institute for Medical Research, London (for work on the development of liquid-liquid partition chromatographic methods of chemical analysis); Professor R. A. Morton, University of Liverpool (for studies on the chemistry and biochemistry of the fat-soluble vitamins); Mr. R. J. Pumphrey, University of Liverpool (for work on hearing in insects and man, etc.); Mr. H. E. Shortt, C.I.E., London School of Hygiene and Tropical Medicine (for work on protozoal diseases); Professor M. Stacey, University of Birmingham (for studies of the carbohydrates of animal tissue and of micro-organisms); Messrs. R. L. M. Synge, Rowett Research Institute, Aberdeens (for his application of partition chromatography to the separation of amino-acids and peptides); and B. P. Uvarov, C.M.G., Antilocust Research Centre, British Museum (Natural History) (for researches on the orthoptera and for the part he has played in the international organisation of measures for the control of locusts).

## WILLS

MR. W. BEESLEY, M.P.S., 55 Woodstock Road, Moseley, Birmingham, left £1,857 (£1,834 net).

MR. J. COWARD, M.P.S., 101 Congreve Road, Worthing, Sussex, left £9,530 (£5,219 net).

MR. S. H. MUSTON, M.P.S., Two Gables, Dalton Magna, Rotherham, Yorks, left £1,890 (£1,851 net).

MR. H. E. CARNE, M.P.S., 165 Brecknock Road, London, N.19, left £2,694 (£2,456 net).

MR. G. W. BLOUNT, M.P.S., 31 Brighton Grove, Newcastle-on-Tyne, left £1,890 (£1,833 net).

MR. H. F. SCOTT, M.P.S., J.P., High Street, Inverkeithing, Fife, left estate in England and Scotland valued at £8,110.

MR. H. C. PARKER, M.P.S., Cowick Lodge, New Cross Road, Stamford, Lincs, left £5,728 (£5,680 net).

MR. R. A. JAMIESON, M.P.S.N.I., 39 Hawthornden Road, Knock, Belfast, chairman of Shaw and Jamieson, Ltd., Town Hall Street, Belfast, left £23,771.

MR. W. B. KELLY, Fairwood, Lytton Road, Hatch End, Middlesex, for sixty-three years with W. J. Bush & Co., Ltd., Hackney, London, E.8, left £6,469 (£6,216 net).

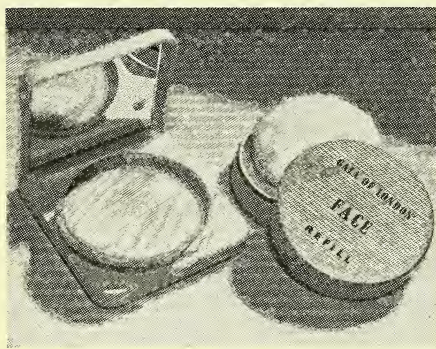


## TRADE NOTES

**Prices in Ireland.**—The Irish Drug Association has issued a price list of drugs, chemicals, and sundries. The list includes a dispensing section which, in addition to prices, deals with coding methods.

**Available in Two Sizes.**—Syrup Sedamyn sedative expectorant is available from the manufacturers, Sharp & Dohme, Ltd., Hoddesdon, Herts, in 4-oz. and 16-oz. bottles. Descriptive literature will be sent on request.

**Quick Make-up.**—A new preparation, Face, introduced by Gala of London, Ltd., Hook Rise, Kingston By-pass, Surbiton, is



a compressed powder compact containing its own cream base. It is adapted to quick make-up and can be used with one of the Gala tinted foundations for evening wear. Refills are available.

**Tonic Brilliantine.**—Delavelle, Ltd., 38 Orsman Road, London, N.1, have introduced Delavelle Blue Orchid tonic brilliantine, with a window display bonus offer, details of which are given on another page of this issue.

**Spring Exhibition.**—Barclay & Sons, Ltd., 95 Farringdon Street, London, E.C.4, invite South Coast chemists to visit their first spring exhibition, which is being held until March 31 at Clarence Hotel, North Street, Brighton.

**A New Antacid.**—Harwoods Laboratories, Ltd., Watford, Herts, have put on the market a new antacid, Effalgen. The product is issued in cartons containing sealed individual-dose packs handy for pocket or handbag.

**Lip Colour Made Smearproof.**—B.G.P. (Cosmetics), Ltd., 37 Gresham Place, Lon-

don, S.W.1, are the manufacturers of Lip Cote, which is applied to the lips after lipstick has been used in order to render it indelible.

**Properties of a Shampoo.**—Ashe Laboratories, Ltd., 120 Victoria Street, London, S.W.1, point out that their Bandbo almond creme oil shampoo has five times the nourishing value of any other shampoo known to the makers (and not as previously stated).

**A New Tonic.**—The Laboratories for Applied Biology, 6 Percy Street, London, W.1, has introduced Labiton stabilise kola and vitamin tonic. The composition of the product and trade terms for supply are given in an announcement by the company on another page.

**Evening Classes in Optics.**—The Institute of Optical Science, London, invite pharmacists wishing to take evening course in preparation for the optical examination to interview the director of studies, School of the Institute of Optical Science, 8 Wilton Crescent, Knightsbridge, London, S.W.1, from 7-9 p.m. on March 27.

**Main Distributing Agents.**—Scram Products, Ltd., 5 Dartmouth Park Hill, London, N.W.5, have appointed J. Waterhouse & Co., Ltd., Ashton-under-Lyne, Lancs, as the main distributing agents for their products in the counties of Lancashire and Cheshire and the adjoining parts of Staffordshire, Yorkshire, Derbyshire and North Wales.—Messrs. Waterhouse have made available to stockists a new display outer for Nurse Sykes powders which are advertised extensively in the Manchester district. The company is prepared to pay for advertisements in the local paper of any chemist prepared to take up the line.

**Alternative Packs Accepted.**—The Ministry of Health has agreed to accept O.N.H.S. prescriptions until May 31 either the tin or carton packs of elastic adhesive bandages, B.P.C., issued by Cuxson General & Co., Ltd., Oldbury, Birmingham; A. de St. Dalmas & Co., Ltd., Leicester; Herts Pharmaceuticals, Ltd., Welwyn Garden City; Johnson & Johnson (Great Britain), Ltd., Slough; Leslie, Ltd., London; William Mather, Ltd., Manchester; T. J. Smith & Nephew Ltd., Hull; and Edward Taylor, Ltd., Monton.

**Ruled Taxable.**—THE ANGLO-FRENCH DRUG CO., LTD., 11 Guilford Street, Lon-

on, W.C.I., announce that the Customs and Excise authorities have reversed a previous tax decision affecting the 40-oz. and 10-oz. packings of Elixir Gabail. Those packings remain available but, like the bottles of 187 c.c. and 16 fl. oz., are now liable to purchase tax.—**ROCHE PRODUCTS, LTD.**, Welwyn Garden City, Herts., announce that the following of their products are now subject to purchase tax:—Becovym, Hepar glandol B, and pantothenic acid tablets.

**New "Smooth-coated" Pills.**—A 4-p. full colour broadsheet issued by Beechams Pills, Ltd., St. Helen's Lincs, announces the introduction of smooth-coated Beecham's pills, together with details of an introductory offer of an extra 5 per cent. discount on all Beecham's pills ordered during April, provided that at least 25 per cent. of the order is for the smooth-coated variety. Extensive Press and poster advertising will feature both the original and the smooth-coated kinds, which are each available in boxes of two sizes and in twists.

**Now Tax-free.**—**BURROUGHS WELLCOME & Co.**, 183 Euston Road, London, N.W.1, announce that Histanin brand dl-(p-chlorobenzhydryl)-4-methylpiperazine monohydrochloride, is exempt from purchase tax.—**PHARMACEUTICAL LABORATORIES GEIGY, LTD.**, state that Tromexan (B.O.E.A.) is now tax-free as Bis-3':3' (4-hydroxycoumarinyl)-ethyl acetate.—**PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD.**, Dagenham, Essex, announce that containers of 500 tablets ammonium chloride, 0.5-gm., M. & B., are now supplied tax-free against orders specifically stating that a dispensing pack is required or that the tablets are required for dispensing purposes only.

**Under-arm Deodorant Pads.**—Attention is drawn elsewhere in this issue to the Five-day deodorant pads available through the sole distributors, Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1 (They return to the market after an interval and to an improved formula). The pads are issued in a screw-cap jar of ten on "self-selling" card and in economy "keep-moist" jar of thirty pads. An extensive Press advertising campaign is planned, and the goods are available on bonus terms. Deliveries are being held over until after the Budget and not as stated in the company's announcement. Invoices will be in accordance with the adjusted delivery date.

## Proprietary Articles Trade Association

**Deletions from Protected List (Part 1).**—*Calfos, Ltd.*, Calfos tablets.

*Osborne, Bauer & Cheeseman, Ltd.*, Glymiel healing ointment and medicated jelly.

*Petrolagar Laboratories, Ltd.*, Petrolagar brand emulsion; Bovinine. (Petrolagar retained in list under entry of John Wyeth & Bro., Ltd.).

*Wesco House, Ltd.*, Mejenel.

**Alterations to Protected List (Part 1).**—*Glaxo Laboratories, Ltd.*, Celin ampoules 100-mgm., 12's, 74s. doz., 9s. 3d. (exempt); Celin Forte ampoules, 500-mgm., 3's, 36s. doz., 4s. 6d. (exempt).

**Alterations to Protected List (Part 2).**—*Chesebrough Manufacturing Co., Ltd.*, Vaseline hair tonic, prices in Channel Islands, 13s. doz., 1s. 6d.; 20s. 6d. doz., 2s. 6d.

*Edwards Harlene, Ltd.*, Special display bonus offer. From February 1 and until further notice, discount of 5 per cent. available to retailers (through P.A.T.A. wholesalers only) on orders value £3-£5 in return for window or counter display of at least fourteen days.

*Optrex, Ltd.*, Famel brand cough syrup, 32-oz., 90s. doz., tax 33½ per cent., i.r.p. 12s. 6d.; (dispensing pack), 40-oz., 114s. doz.

## C. & D. DISPENSING PRICE LIST

THE following price changes in biological products should be noted:—

Item	Strength	Cost		Selling s. d.
		d.	per	
Penicillin (crystalline) ..		as	for Pen	icillin
Penicillin calcium salt .. ..	1 mega	52	each	6 6
Penicillin inject. c. procain. S.I.	300,000 units per mil.	216	10 mils.	27 0
Penicillin procain. c. alumin. stearat S.I.	300,000 units per mil.	216	10 mils.	27 0
Penicillin hypo-dermic tab. ..	10,000 units	16	10	2 0



## PHARMACEUTICAL SOCIETY OF IRELAND

MR. T. C. SCOTT (president) was in the chair at the monthly meeting of the Council of the Pharmaceutical Society of Ireland on March 14. Other members present were Messrs. J. P. Kissane (vice-president), J. Gleeson (treasurer), P. A. Brady, P. C. Cahill, P. F. McGrath, C. D. O'Shea, G. C. O'Neill, H. P. Corrigan, Senator F. Loughman, P. Brooke-Kelly, C. J. Cremen, T. B. O'Sullivan, M. Power, J. J. Roche, and J. A. O'Rourke. An apology was received from Mr. A. A. Toher.

A letter from the Real Academia de Farmacia, Madrid, stated that the Society of Pharmacy in Spain had not previously had any contact with the chemists or the Societies of Ireland. A copy of the latest review "*Anales de la Real Academia de Farmacia*" was to be sent, and it was hoped it would create a scientific link between the two countries. The Council directed that a reply should be sent reciprocating the cordial greetings.

### Changes of Address

The following changes of address were notified: Mr. James McGrotty, M.P.S.I., to Lisdoonvarna, co. Clare; Miss Mary B. Delaney, L.P.S.I., to 45 Johnstown, co. Waterford; Mr. John P. McCluskey, L.P.S.I., to Main Street, Ballymahon, co. Longford; Mr. James S. Starkey, L.P.S.I., to Ocean View, Tramore, co. Waterford.

A letter from the Medical Association of Eire stated that it had been decided to establish a committee (the Joint Poisons Committee) representative of all interests to report on the present regulations governing the issue and sale of poisons and dangerous drugs, and the Council was asked to nominate two or three representatives. The Royal College of Physicians would nominate two, and it was proposed to appoint a medical representative from Dublin University, the Royal College of Surgeons, and University College, Dublin. On the motion of THE PRESIDENT, seconded by MR. POWER, the Council unanimously agreed to appoint the vice-president, and Messrs. Gleeson, Cahill, and Cremen as representatives on the proposed committee.

### Reciprocity and Examinations

THE REGISTRAR (Mr. James G. Coleman) reported that the Minister for Justice had approved amendments to the Regulations passed recently by the Council on

reciprocity and examinations. He intimated that all Ministerial functions in relation to the Society were to be transferred from the Department of Justice to the Department of Health. The following amendments, which were approved, are now in force:—

"Delete Order of January 22nd, 1946, page 81 of the Book of Acts and Regulations and insert in lieu thereof: 'Any candidate for the Licence examination who holds a degree in science in any Irish University may, on application by the candidate, be exempted by the Council from (a) lectures and/or (b) examination in either or both of the subjects of pharmaceutical and general chemistry and botany provided the candidate has passed in the University examination for his degree in such subject or subjects.

"Any candidate for the Licence examination who holds a certificate or diploma as pharmaceutical chemist or pharmacist from an college or board of pharmacy with which the Pharmaceutical Society of Ireland has reciprocal relations may, on application by the candidate, be exempted from (a) lectures and/or (b) examination in the subjects of pharmaceutical and general chemistry, botany, materia medica and pharmacy; and such candidate, having submitted evidence of qualifications satisfactory to the Council (but not a declaration form as required by Regulation III; Licence examination may, after six months' residence in Ireland, be permitted to enter for the Licence examination and having satisfied the board of examiners of his knowledge of the Sale of Poisons (Ireland) Act, the Arsenic Act of 1851, the Poisons and Pharmacy Act of 1908, and the D.D.A. regulations, shall be entitled to registration as a pharmaceutical chemist on payment of the requisite fee: Provided, if residence in Ireland is later denied to any person registered under this Regulation, then such denial of residence shall automatically cancel all such registrations and privileges. The fee for examination or re-examination of a candidate under this Regulation shall be eight guineas."

"Delete Regulation IV (p. 66 of Book of Acts of Regulations) and insert in lieu thereof: 'The Council shall elect fit and proper persons to be examiners (to conduct such examination as are directed by Clause 21st of the Pharmacy Act (Ireland) 1875) in each of the divisions of examinations, viz.:—I. English, Latin, mathematics, Irish and optional subject. (This examination to be known as the Preliminary examination.) II. Elementary chemistry and elementary physics (to be known as the pre-registration examination). III. Materia medica and botany pharmaceutical and general chemistry; pharmacy, reading and translating of prescriptions Irish Pharmacopœia, and Sale of Poisons (Ireland) Act, 33 and 34 Vict, cap. 26, 1870 (to be known as the Pharmaceutical Licence examination).'



### **cognition in Rhodesia**

The reports of the House, Law, and Schools Committees were approved. Following consideration of the Schools Committee's report, THE REGISTRAR read a letter from Mr. Nicholas Scroope, M.P.S.I., Lusaka, Northern Rhodesia, who stated that, as a result of a general ballot taken by the Pharmaceutical Association of Rhodesia on the Irish certificate, it had been decided to recommend to the Government there not to accept that certificate in future, but to delay sending the resolution forward until the Pharmaceutical Society of Ireland had had an opportunity of looking into the matter. The Council decided that no action could be taken pending receipt of the communication from the Executive Committee in Rhodesia.

### **Reputation from Dance Committee**

The Council then received the following members of the Benevolent Fund Dance Committee:—Mr. P. G. Redmond (chairman), Miss B. Fullam, Miss C. Caffney and Mr. David Murphy. MR. REDMOND said that this was the third occasion on which it had been his privilege to present the Council with a cheque for the proceeds of the dance. Every other year he was able to say the amount was the biggest so far, but unfortunately that was not the case this year. Owing to new regulations in the Budget the Committee had been unable to claim rebate of tax and had had to pay over £54 8s. from the proceeds. The best they could do was to hand over a cheque for £437 which, as the tax had not been deducted, would have exceeded last year's figure of £470, and would almost have reached the target of £500. During the year the Committee had lost a good friend in the late Mr. Arthur Collins, who had always given them generous support. They were indebted to the Editor of THE CHEMIST AND DRUGGIST for unflinching support, and regretted that, for health reasons, he had been unable to be present in December. MR. REDMOND expressed the committee's thanks to the registrar (Mr. Coleman), Miss McCarthy, and Mr. H. G. Smith, for co-operation.

THE PRESIDENT said he had great pleasure in accepting the cheque on behalf of the Society. The fact that it did not exceed last year's amount was due to circumstances over which the Committee had no control. They had worked hard, and

the function had been the most enjoyable and successful held since their inauguration. He hoped the Committee would go from strength to strength, and next year achieve a new record. MR. GLEESON said he wished to be associated with the president's tributes. The annual cheques from the dance committee were the mainstay of the Fund, and without them they would have difficulty in meeting all claims.

MR. DAVID MURPHY said they had received eighty-nine subscriptions from the country and 196 from the city, which included the wholesalers. The country subscriptions represented three from each county—a poor effort in view of the 2,500 appeals sent out. He thought local dances for the Fund were usually unremunerative, and that it would be more satisfactory if those who patronised such functions gave individual subscriptions direct to the Fund. MR. POWER said that the Limerick dance had been most successful both socially and financially. They should remember that many people in the provinces could not come up to a dance in Dublin in December. Senator Loughman thought a far better way to raise funds was through the issue of sweep cards. MR. O'NEILL said the amount raised was amazingly good and he would not like it to go out from there that the local chemists should not have their own dances. MR. O'SHEA said that to attend the dance from Cork would mean spending two or three days in the city.

MR. B. P. HICKEY was unanimously re-elected examiner to the Assistants' examination, and Mr. Richard F. Timoney to the Registered Druggists' examination for the year ending March 31, 1951. Licence certificates of the following were signed and sealed: John P. Burke, Patrick G. Coen, Patrick Duffy, Una P. Gleeson, Margaret J. Gibbons, Fionan St. L. Harty, Josephine M. Hassett, Thomas D. Higgins, Edwards McGee, Joan M. Malone, Rosaleen F. Murphy, James Sheil, and Edward J. Walsh. The following were elected members of the Society: Mrs. E. V. Browne, Messrs. William J. Fegan, James G. Jordan, William F. Sweeney, and Patrick Duffy. The following were nominated for membership: Miss Mary B. Delaney, Johnstown, co. Waterford; John P. McCluskey, Ballymahon, co. Longford; John Riordan, Macroom, co. Cork; and James Sheil, Lucan, co. Dublin.

A meeting of the Benevolent Fund Committee passed some grants for payment.



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VOL. CLIII MARCH 25, 1950 No. 3657

## Chemists and the "Ceiling"

CERTAIN newspaper critics have suggested that Mr. Bevan's attack on proprietary medicines (see *C. & D.*, March 18, p. 338) portends a fundamental change of N.H.S. policy. With limited exceptions, proprietaries, they suggest, may be put out of bounds to prescribers, or rather to N.H.S. patients, since for those who are prepared to pay for them the proprietary products will continue to be available. It has further been suggested in at least one quarter that a cut in dispensing fees is imminent. Of the latter possibility we have found no hint in any of the Minister's utterances, nor, in our view, is the slightest justification forthcoming from the statistics. Mr. Bevan has made no secret of the fact that he thinks the earnings of dentists too high, but there has been no suggestion that the scales of dispensing fees for pharmacists, which were arrived at after prolonged negotiation, have proved unfair to either party. That chemists should not be worse off under N.H.S. than under N.H.I. was fundamental in the negotiations, and it is plain that if Mr. Bevan eliminated proprietaries from the scheme and cut dispensing fees, contractors would be very much worse off. Of course there is the possibility that the Minister's hand might be forced by the Chancellor of the Exchequer, who has demanded a "ceiling" on N.H.S. costs. But there are right and wrong ways of doing that, and while spanning the roof to hack away one of the soundest supports would be at the very least imprudent.

Rejecting for a moment, therefore, the possibility of cuts in dispensing fees, let us consider probable policies in the matter of proprietaries. A total ban upon them cannot seriously be considered—or why the Cohen committee? If—a more likely thesis—there is to be discrimination between one type of product and another, on what principle should it be made?

Public interest should be the criterion. The public interest undoubtedly requires that medical research should continue. It follows that the products of genuine research must be allowed to be prescribed. That means guaranteeing to the prime maker a return on his money; it does not necessarily mean equal support for others, some of whom may be of the kind who hasten to board the band-wagon. The difficulty is to know how to draw the line. In this connection a system which is understood to be in operation in France may prove the clue. There, the person or firm introducing a product involving original creative work may register it under a brand name, disclosing the composition. Other makers may make the article as an unbranded galenical, and at a price comparable with the prices of other unbranded galenicals. There are thus available to the physician two products, either of which he may prescribe—the proprietary, possibly incorporating a "know-how" in manufacture, or some other distinctive feature that convinces the physician it would be better for his patient than the "standard" product; and the unbranded preparation which he can order at less cost to the Exchequer.

A move along those lines might well command support among many pharmacists and, indeed, of many wholesale distributors, to whom the present multiplicity of proprietaries in a given field has become something of a nightmare, taxing memory and capital alike.

## Overseas Trade in February

UNITED KINGDOM exports in the short month of February amounted to £155.8 million, £7.1 millions higher than the monthly average in 1949 but £20.2 millions less than in January when the exports were seasonably high. Imports were



valued at £181.7 millions, which was £19.5 millions lower than the January figure and lower than in any month last year except September and February, 1949, when imports were £181.1 millions and £162.0 millions respectively. The value of re-exports was £5.3 millions (compared with £5.8 millions in January), and the excess of imports over total exports was therefore £20.6 millions (compared with £19.5 millions in January). Exports to the U.S.A. in February were valued at £6.3 millions, compared with £6.9 millions in the longer month of January and £6.7 millions monthly average for the last quarter of 1949. Exports to Canada totalled £8.0 millions, compared with £8.4 millions in the previous month, and £7.2 millions monthly average for the last quarter.

Exports of the "chemicals group" were also lower than in the previous month—£6,851,945 compared with £7,934,581—but they exceeded the total for February 1949, by £114,513. Exports of chemicals to the United States were valued at £378,530 (February 1949, £356,320) and to Canada at £404,357 (£216,301). Drugs and medicines of British manufacture sent overseas in February had a total value of £1,338,644, against £1,756,256 in the previous month and £1,368,308 in the corresponding month a year earlier. Proprietary medicines were valued at £335,928, compared with £419,719 in January and £391,036 in February 1949. Exports of quinine totalled £12,678, compared with £43,738 in January and £30,721 a year ago. Aspirin exports were valued at £24,143 (February 1949, £20,513); insulin at £21,286 (£43,056); and penicillin at £173,637 (£184,461). Ointments and liniments of various kinds had a total value of £51,471 (£63,722).

February exports of perfumery and toilet preparations (excluding perfumed spirits, essential oils and soap) were valued at £279,573 (compared with £285,796 a year earlier). To this total, tooth-pastes, mouth washes, etc., contributed £71,378 (£47,280), and cosmetics, £102,262 (£97,731). Perfumes (spiritous) exported reached a total of £35,404 (£29,218) and essential oils of £50,653 (£34,144).

## Anti-pernicious-anæmia Factors

THE term anti-pernicious-anæmia factor applied to the red crystalline material isolated from ox liver in 1948 by workers in U.S.A. and Britain appeared not to be truly descriptive of the body when other similar factors were later isolated from the same source. Three cobalt-containing factors have been isolated from liver, and several other bodies of the same type isolated from other natural sources (e.g., from *Streptomyces griseus* (a commercial source of the vitamin and the source of streptomycin). *S. aureofaciens* (the source of aureomycin) and cow dung. The cow-dung factor, like certain other naturally occurring factors, is not hæmopoietically active until acted upon by enzymes found in the hog-stomach mucosa or pancreas.

Dyke, Hind, Riding, and Shaw, at the Evans Biological Institute, Runcorn ("Lancet," 1950, **258**, 486-88) have added much to knowledge of the vitamin—and of pernicious anæmia—by showing that a substance like vitamin B<sub>12</sub>, though not necessarily identical with it, is produced in the alimentary canal of man and animals.

The red fraction isolated from the horse's intestinal contents (by chromatographic and other processes) was active clinically and microbiologically. Work in progress suggests that lactobacilli isolated from the intestines can synthesise vitamin B<sub>12</sub>. The authors suggest that in man the normal requirements of vitamin B<sub>12</sub> are provided by bacterial synthesis in the colon.

The work, which will have considerable significance in studies of the cause of pernicious anæmia, suggests that variation in intestinal vitamin B<sub>12</sub> content should be considered in addition to considerations of intrinsic and extrinsic factors first suggested by Castle and workers. The vitamin B<sub>12</sub> content, in turn, will depend on the type and number of organisms present, which may be influenced by diet. This may throw some light on the relationship between diet and spontaneous remission and relapse in pernicious anæmia, and may explain the supposed value of strawberries in sprue, and likewise of bananas in coeliac disease.

# PAPER CHROMATOGRAPHY

By Dr. Tudor S. G. Jones

(Chemical Division, Wellcome Research Laboratories, Beckenham, Kent)

## 2.—Applications

OF the many applications of paper chromatography, few of strictly pharmaceutical interest have been described. There is little doubt, however, that the method is finding increasing use

in the isolation of natural products.

Two extensions of the procedures discussed in the first article (see *C. & D.*, February 25, pp. 247-49) which increase the scale on which separations may be effected are the starch column and the chromatopile. The starch column, devised by Synge<sup>1</sup>, uses washed potato starch as the support; it is packed uniformly in a column from one-half to eight inches in diameter. A water-saturated solvent is caused to percolate through the column under conditions similar to those described for paper and the order in which materials are separated is largely retained. This constitutes one of the most accurate methods of protein analysis, and informa-

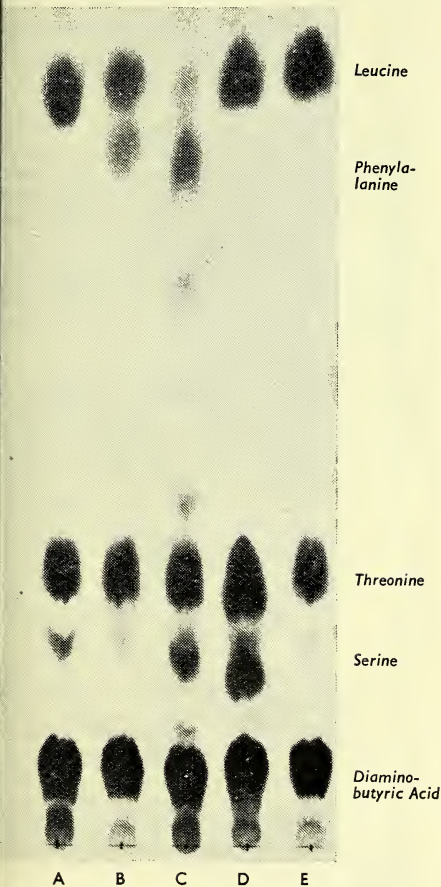


Fig. 1. Single dimensional paper chromatogram (downward flow) of hydrolysed polymyxins A, B, C, D and E. Direction of flow upwards in the illustration. Various fainter spots other than phenylalanine are due to peptides produced by partial hydrolysis.

in the control of manufacture and will displace much non-specific biological testing of drugs, particularly in the interme-



Fig. 2. Single dimensional chromatogram of intact polymyxins.

tion obtained on the smallest columns may be applied directly to the large ones. Powdered cellulose has been used in place of starch.

The chromatopile consists of a vertical pile of some 500 circles of filter paper firmly bound in a framework, which has provision for the continuous infusion of a suitable solvent. After the solvent front has reached the lowest circle, the individual sheets of paper are dried and tested for the separated substances originally applied as a mixture to one or more circles near the top of the pile. The method is very new but has already been used for the separation of enzymes.



### Amino-acids and Peptides

In the foregoing, emphasis has been placed on amino-acid analysis largely because the method was devised for that purpose. Examples of the use of the method in this field are many, and materials examined include proteins and polypeptide hydrolysates; free and bound amino-acids in plants and bacteria; the culture media of bacteria and the products of bacterial metabolism, including antibiotics; the tissues and excretions of animals, including saliva and urine, normal and pathological.

Some half-dozen new amino-acids have been added to the score of amino acids known to the present in natural substances. For example, the tubercle bacillus has very recently been shown to contain  $\alpha,\epsilon$ -diaminopimelic acid, which also occurs in the bacteria of the digestive tract of ruminants. The antibiotics called polymyxins have been shown to contain  $\alpha,\gamma$ -diaminobutyric acid and the

has been developed for dealing with small quantities of precious material. Paper chromatography has been exploited to the full in this field. The first triumph was the determination of the order of the amino-acids in gramicidin S, an antibiotic

AMINO-ACID COMPONENTS OF THE POLYMYXINS

Poly- myxin	Leucine	Phenyl- alanine	Threo- nine	Serine	$\alpha, \gamma$ -Diamino- butyric acid
A	+	—	+	—	+
B	+	+	+	—	+
C	—	+	+	—	+
D	+	—	+	+	+
E	+	—	+	—	+

developed in the Soviet Union. This was shown by Syngé, using partition chromatography, to consist of equimolar quantities of the amino-acids L-ornithine, L-proline, L-valine, L-leucine and D-phenylalanine. Partial hydrolysates, when examined by two-dimensional partition chromatography, were found to contain, in addition, four dipeptides and three tripeptides. The peptides were eluted from

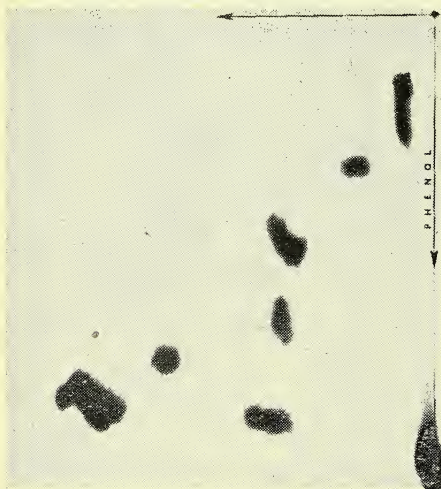


Fig. 3. Two-dimensional chromatogram of 0.4 mgm. hydrolysed crude *Festuca* ergot alkaloid. Butanol/acetic acid mixture in horizontal, and phenol in vertical direction. The chromatogram shows a preponderance of phenylalanine, derived from ergotamine. (Tracing, Fig. 4 opposite.)

enniatins, produced by moulds, to contain *N*-methylvaline and *N*-methylleucine.

The recent interest in antibiotics has fortunately been aroused at a time when a variety of methods of great specificity

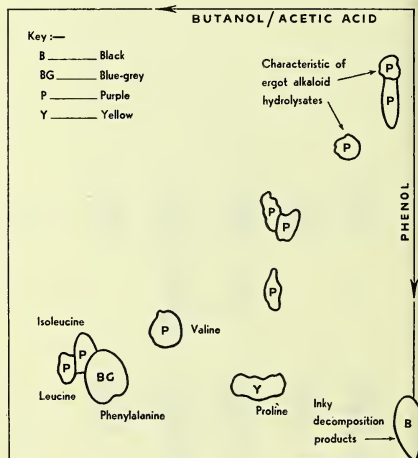


Fig. 4. Tracing of Fig. 3 showing amino-acids from hydrolysed crude *Festuca* ergot alkaloid that are known to be present.

the paper and their identity established by hydrolysis and single dimensional chromatography. The interpretation of these results, together with the absence of free amino-groups, other than those of ornithine, and of free carboxyl groups, was



nat gramicidin S was a cyclic penta- or hepta-peptide.

The separation of amino-acids was extended to the separation of higher peptides in the investigation of the polymyxins, a series of antibiotics synthesised by strains of *Bacillus polymyxa* and selectively active against certain Gram-positive organisms. The amino-acids found in the five known members of this group<sup>2</sup> are shown in the table (p. 376), while Fig. 1 (p. 375) shows a chromatogram prepared from hydrolysates of the members of the series. It is seen that polymyxins A and E are not distinguishable by the amino-acid content alone. Polymyxins A and D were originally the antibiotics known as Aerosporin and polymyxin and discovered in the laboratories of the Wellcome Foundation, Ltd., and the American Cyanamid Co., respectively. Both antibiotics were known to be impure so that the additional amino-acid was not evidence that they were different chemically. The chromatograms of the intact peptides, shown in Fig. 2 (p. 375) left no doubts that Aerosporin was different from polymyxin. The examination of further strains of *B. polymyxa* by Wellcome Foundation workers yielded the further antibiotics polymyxins B, C and E, also shown in Fig. 2. A further antibiotic, circulin, produced by *B. circulans*, has recently been found and is similar to polymyxins A and E in that it has the same qualitative amino-acid composition.

The mould *Streptomyces griseus* is known to produce a mixture of antibiotics in which streptomycin predominates. The members of this group have also been separated by paper chromatograms, using the technique of the seeded agar plate for their detection. This technique was invented by Goodall and Levi<sup>3</sup> (in the laboratories of Imperial Chemical Industries, Ltd.), for the separation of penicillin mixtures. They used paper buffered with phosphate as the support and ether as solvent, and ran their chromatograms at 5°C. The narrow strips of paper were then laid for a time, under slight pressure, on the seeded agar plates, and after removal of the strips the plates were incubated. Clear zones of inhibition of somewhat elliptical shape were visible in the seeded plate, and their diameters were a measure of the proportions of the different penicillins present.

Paper chromatography was applied to the sugar field by Partridge and has revolutionised the detection and assay of

natural sugar mixtures, whether occurring as the free sugars or arising from the hydrolysis of polysaccharides such as the starches, plant gums and mucilages, or of glycoproteins such as the blood group specific polysaccharides and the gonadotrophic hormones. A recent example is the demonstration that slippery elm mucilage contains 19 per cent. of a new sugar, 3-methylgalactose.

Perhaps the most instructive application of paper chromatography in the botanical field has been the elucidation of the path of carbon in photosynthesis by Calvin and his school in California. Here carbon dioxide containing a proportion of radiocarbon has been used as the raw material for photosynthesis, and the many stages in the process followed. Some of the intermediates were assayed by paper chromatography combined with tracer technique. The amino-acids in green algae and other aquatic plants have been determined under different conditions of nutrition. At the other end of the scale, *Eucalyptus resinifera* has been shown to contain a higher proportion of syringaldehyde than of vanillin. The raw potato has been shown to contain a variety of amino-acids, some new. These include  $\gamma$ -aminobutyric acid, which is of wide occurrence in nature and has been isolated from *Pisum sativum* and the sugar beet.

### The Ergot Alkaloids

A recent publication<sup>4</sup> of interest to pharmacists describes the detection of ergometrine and lysergic acid in injection of ergometrine maleate. It was suspected from biological assay that, during the sterilisation of this preparation, some of the ergometrine was isomerised, with loss of potency. Using as indicator the intense fluorescence, which these alkaloids exhibit in solution and on paper when irradiated with ultra-violet light, it was found possible to separate this isomeric pair on Whatman 1 paper with butanol/acetic acid/water as the solvent. Furthermore, using butanol/pyridine/water as solvent, old injections showed the presence of lysergic acid formed by the hydrolytic removal of  $\alpha$ -alanol. A semi-quantitative assay for these alkaloids was developed and it is now possible to estimate the proportion of ergometrine in crude alkaloid preparations without the time-consuming chemical extraction and biological assay previously necessary. With the above solvents, the water-insoluble ergot alkaloids migrate

with the solvent front. The known amino-acid components of the different ergots alkaloids may be taken as an indication of their presence in the crude alkaloid. As an example, Fig 3 (p. 376) illustrates a two-dimensional chromatogram of a sample of *Festuca* ergot which shows a strong spot for phenylalanine, the amino-acid present in ergotamine.

Subjects of great topical interest are the adrenocorticotrophic hormone (ACTH) and cortisone. The former is a protein of interesting properties isolated from the anterior pituitary body. Two groups of workers have shown that it is possible to separate from this protein peptide fractions of relatively small molecular weight having biological properties similar to the parent protein but to an enhanced degree. Both groups of workers have used paper chromatography extensively in the separation and examination of the homogeneity of this peptide fraction. The announcement of its constitution, in the determination of which paper chromatography cannot fail to take a predominant part, is awaited with great interest. Among the products of the action of ACTH on the suprarenal cortex is cortisone, now being tried in the treatment of rheumatic disorders. The separation of this hormone from the gland and from urine, where it occurs naturally, is a long and tedious process. The difficulty will be appreciated when it is realised that the normal human excretes about 10 mgm. per year. To be able to examine the metabolism of the cortical products, special solvent systems (mentioned in the first article) have been devised, and the extract from only two or three days' urine suffices for the detection and rough estimation of cortisone and a number of related substances.

### End Not in Sight

The phenomenal growth of paper chromatography, particularly during the last two years, is an augury for the future. The method is of such scope that it will find uses in almost every field of chemistry, and particularly biochemistry, where complicated mixtures of materials in concentrations of the utmost minuteness are the commonplace. Its impact upon pharmacy should be easy to foretell: already almost daily there appear applications to the newer potent products, the hormones, vitamins and plant drugs. A beginning has been made, but as yet the end is not in sight.

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## WORLD NARCOTICS STATISTICS 1948

DETAILS of the licit movements of drugs within each country and territory of the United Nations, for 1948, have just been published by the Permanent Central Opium Board of the United Nations as an addendum to the Board's report to the Economic and Social Council on Statistics of Narcotics for 1948, and the work of the Board in 1949. The Drug Supervisory Body has issued the fourth supplement of the Estimated World Requirements of Narcotic Drugs in 1949. Both publications (price 3s. and 1s. respectively) may be obtained from the United Nations Association of Great Britain and Northern Ireland, 11 Maiden Lane, London, W.C.2. The information contained in the first report about the stocks in five countries of drugs coming within the Board's control is summarised in the table below:—

DRUG	STOCK (CALCULATED) ON DECEMBER 31, 1948 (in kilos)				
	U.K.	France	U.S.S.R.	U.S.A.	Canada
Morphine ..	1,347	434	1,299*	1,758	119
Diacetylmorphine ..	141	64	—	—	31
Cocaine, crude ..	230	23	—	—	2
Cocaine ..	242	192	—	662	49
Dihydroxycodine ..	23	25	—	1	—
Dihydrocodeinone ..	12	1	—	134	1
Dihydromorphine ..	—	—	—	—	—
Benzylmorphine ..	2	—	—	118	1
Thebaine ..	13	—	—	—	—
Methylmorphine ..	53	187	62*	150	—
Ethylmorphine ..	1,354	1,266†	120*	8,928	—
Methyldihydromorphinone ..	161	212	32*	241	—
—	—	—	—	11	—

\* The actual figure. The calculated figure or the factor required for calculating it is not available.

† In view of the difference between the reported stock and the stock calculated by the Board the authorities have been asked to re-examine their statistics.

## OINTMENTS IN USE

**S**OME surface-active agents and emulsifying agents have been shown to have irritant or other undesirable effects on the skin, and it is essential that the materials should be adequately tested before they are used in pharmaceutical preparations. Testing should be done first in animals, and later by batch tests on large control groups of human beings. Even those tests will not exclude the possibility of adverse reaction in occasional patients who show an adverse reaction to the ingredients of some ointment bases when they are applied to pathological skin. Cases have been reported where paraffins, lanolin and other apparently physiologically inert materials have produced unfortunate reactions on the diseased skin of a patient. The *pH* of normal skin is 5 to 5.5. In many pathological skin conditions the skin becomes alkaline, probably because plasma exudates decompose and liberate carbon dioxide. There is, therefore, a *prima-facie* case for buffering water-miscible ointments to that value—for instance, with potassium hydrogen phosphate and lactic acid. Similarly, water-miscible bases may be used in some conditions as vehicles to apply dilute acid to correct the alkalinity of diseased skin. But dermatological considerations are not the only ones in ointment formulation.

### Cosmetic Qualities

Obviously, the more pleasant an ointment is to use, the more likely it is that the patient will use it consistently, and that fact alone is a good reason for extending the use of water-miscible bases to produce ointments of "cosmetic quality." For years dermatologists have subjected unfortunate patients to the smearing on of lard and various greasy ointments, often containing unpleasant ingredients such as crude tar or chrysarobin. Such preparations are unpleasant to use, unsightly when applied, and frequently soil underclothing and bed-linen. Water-miscible bases may be readily washed off the skin and can be easily removed from clothing. Pleasantness in use is of greatest importance when an ointment is required to be applied over a prolonged period of time, as in the treatment of stubborn conditions due to infections with fungi or bacteria. Fat-free ointment bases and oil-in-water emulsified bases are completely water-miscible. Water-in-oil emulsified, oil-in-water emulsifying and water-in-oil emulsifying ointments,

though fairly readily removed from the skin with water, are not in the true sense water-miscible. The presence of the emulsifying agent facilitates the removal of the ointments from the skin.

### Type of Skin

In selecting an ointment base, the dermatologist has to bear in mind the nature of the skin and the pathological condition which is present. Most of the emulsified and the mucilaginous ointment bases tend to exert a drying effect on some skins, and in a few conditions where the skin is seriously lacking in fat, as for example, ichthyosis or xeroderma, treatment with an ointment containing no water may be preferable. On the other hand, a drying action is most useful in seborrhœic conditions. Persons show considerable variations in oil-and-water content of the skin, and it may be that eventually the dermatologist will prescribe different ointments for different types of skin, just as the cosmetic manufacturer produces his preparations in different forms for use with oily and non-oily skins.

In severe inflammatory conditions, fatty ointments are contra-indicated, because the grease occludes sweat and retards heat radiation from the skin. The clinician treats these inflammatory conditions with cooling preparations such as lotions and cold compresses. He may use fat-free ointments and oil-in-water emulsified bases as applications, since both types of ointment bases have some cooling effect.

### Fungistatic or Bacteriostatic Effects

Ointments are widely used to treat conditions due to bacterial or fungal infections. In such cases the bacteriostatic or fungistatic effects of the ointment are most important. Just as phenol is a more effective antiseptic in water or glycerin than it is in oil, so most of the medicaments used to destroy pathogenic bacteria or fungi are more effective in a base containing a high proportion of water. This is obviously due to better liberation of the medicaments, which are contained in the external phase of the O/W emulsified base or in the body of the ointment if it is a mucilaginous base. It is probable also that, with fatty ointments, the blanketing effect of the layer of grease on the skin prevents the escape of pus and allows multiplication of bacteria beneath the ointment.

(To be concluded)



## TRADE BODIES REPLY TO MINISTER

IMMEDIATE statements were issued by the Associations most closely concerned to the charges brought by the Minister of Health (Mr. Aneurin Bevan) that the rising costs of the National Health Service were attributable to (a) unnecessary prescribing of expensive proprietary medicines for which official equivalents were available and (b) monopoly practices by glassware manufacturers.

### Proprietary Medicines

A statement by the Proprietary Association of Great Britain made the following points:—

The Minister of Health, during the debate on the Supplementary Estimates on the Health Service, referred in a disparaging way to proprietary medicines and suggested that a substantial saving could be effected if doctors limited their prescribing to what are usually termed "official" preparations. He supported his contention with selected illustrations of the cost of certain proprietaries compared with similar (not the same) preparations in his "lists."

The prescribing by doctors of proprietary medicines is not something new since the National Health Service became operative—the Minister himself has stated that, before the National Health Service, proprietary preparations were prescribed to the extent of 5 per cent. of the total prescriptions issued. Extension of the scheme to a much larger group of the population, who were generally accustomed to a higher standard of medical treatment than that afforded under National Health Insurance, naturally resulted in an increase, not only proportionate to the number of extra prescriptions dispensed, but also to the general improvement in the standard of pharmaceutical benefits made available under the scheme. Surely the Minister would be the last to desire that persons joining the Scheme in July 1948 should have treatment inferior to that which they had previously enjoyed. Statistics recently issued show that, in the first three months of 1949, the average cost of each single prescription issued was 33.54d. Before the war, the sum allocated for the supply of drugs and medicines averaged only 2s. 9d. per person per year. This extraordinary increase in the cost of drugs and medicines cannot be attributed solely to the increased prescribing of proprietary medicines.

It would be interesting to know the total cost of prescribed proprietaries in comparison with the total cost of drugs and medicines and to what extent the cost of proprietaries is inflated by the impost of purchase tax at the rate of 33½ per cent. Removal of purchase tax from these preparations would show an immediate reduction in their cost. The drugs and medicines in the Ministry's list are all free of purchase tax. It is also to be borne in mind that the cost of proprietaries when prescribed under the scheme is frequently higher than the retail price for the same article when freely purchased.

The Minister's reference to the preparations being subject to heavy advertising was not accurate in respect of two of the preparations mentioned by him. These have never been advertised to the public and, in fact, the majority of prescribed proprietaries are advertised only in professional and technical journals to the extent necessary to bring their properties to the attention of medical practitioners. The use of the word "racket" with reference to the type of proprietary medicine generally prescribed is entirely unjustified and will be strongly resented by those pharmaceutical manufacturers whose aim is to prepare new medicines and by intensive laboratory and clinical research ensure their efficacy, and whose only protection, to ensure an adequate reward for their labours, is to adopt a proprietary designation. Many well-known proprietary medicines have acquired a reputation and proved their efficacy to such an extent that their formulas have been incorporated in official formularies, but those substitutes cannot be said to be the same as the originals.

### Laboratory Glassware

The British chemical ware manufacturers' statement was as follows:—

The British Chemical Ware Manufacturers' Association has taken note of the statement made by the Minister of Health in the House on March 14 regarding the purchase of glassware for hospitals. The statement gives rise to certain misapprehensions, which the Association wishes to correct immediately. In the first place, there was and is no difficulty in obtaining the bulk of the general types of glassware required by hospitals direct from the manufacturers. The Ministry of Health invited tenders for scientific glassware from the

manufacturers, who informed the Ministry that ample supplies were available through the normal trade channels. The manufacturers secure their distribution through the laboratory furnishers, who cater for the wide range of articles required in hospitals and laboratories, of which glass is only a part. The laboratory furnishers have never been invited to tender. The value of the tenders received by the manufacturers would have made it impossible for the Minister to have saved "a large sum of money" by importing from Germany.

The British Laboratory Ware Association, Ltd. (the laboratory furnishers), also issued a statement, which was as follows:—

The Minister of Health, in his reply in the debate on the Supplementary Estimates for the Health Services, appears to have been misinformed when he stated that the Ministry of Health attempted to bulk-purchase glassware for hospitals direct from the manufacturers without success. The Min-

ister further said that he had attempted to purchase through the retailers, but that they had refused to submit tenders. The laboratory furnishers point out that both statements are entirely without foundation. The Ministry of Health, so far as can be ascertained, purchases almost its entire requirements of medical glassware direct from the manufacturers. It appears that what Mr. Bevan had in mind was laboratory glassware, namely beakers and flasks, which the manufacturers suggested the Ministry could purchase more easily from the forty-three laboratory furnishing firms that are situated throughout Great Britain and Northern Ireland. So far, only one tender for beakers and flasks has been issued by the Ministry of Health to the manufacturers. This tender the Ministry refused to issue to the laboratory furnishers. We feel this position should be clarified without further delay on behalf of all concerned.

## ASSOCIATION OF GLASGOW PHARMACISTS

A MEETING of the Association of Glasgow Pharmacists was held on March 2, Mr. R. F. Mackay in the chair.

MR. MACKAY said that the Committee formed to consider the disposal of broken bulk products had suggested that the city should be divided into six areas; one member of the association would act in each area as its representative. Members who wished to make use of the service of disposal of broken bulk would make out a duplicate list of stocks available and send one copy to their area representative. Alphabetical lists would then be made by the representative and all area representatives would meet together to exchange lists. If a member required a small quantity of a commodity he would contact his area representative, who would be able to inform him where it could be found and would then purchase the stock from the seller at cost. The lists would require to be reviewed from time to time. It was felt that rules were unnecessary and that an agreement would suffice.

MR. MACKIE thought that the distance between the districts in Glasgow might involve difficulty in obtaining stock on the day it was required, but MR. MACKAY said that it would be for the buyer to decide whether to obtain the stock locally or wait for supplies from a wholesaler.

MR. WOOD said that it had been agreed in Committee that the Association would

have nothing to do with the age of the stock available and that it would be a personal contract between individual chemists. MR. MUNRO moved and MR. WOLFSON seconded the adoption of the scheme.

The six area representatives appointed were as follows:—Ibrox, Mr. Wolfson; Bridgeton, Mr. Wilson; South Side, Mr. Munro; West End, Mr. Carmichael; East Side, Mr. Wade; Central, Mr. Stewart; North Side, Mr. Bannerman.

THE CHAIRMAN said that living accommodation for employees and locums was a great problem. He asked members to give names and addresses to the secretary of people willing to take boarders so that a list of lodgings could be drawn up.

MR. BIRRELL moved and MR. FRASER seconded a resolution that the Association should write to the local Pharmaceutical Committee asking them to take up the matter of outstanding payments on E.C.10A forms, and to ask the reason for delay in receipt of previous month's cheque.

To prevent the non-collection of developing and printing orders it was suggested that the secretary should write to various organisations for their views on whether the public should be asked for deposits when leaving orders. It was also decided to write to the appropriate department asking if amendments to the Drug Tariff could be issued more quickly.



## NORTH LONDON ANNUAL DINNER

DR. CHARLES HILL, M.P. (secretary of the the British Medical Association), and Mr. J. Hearle (chairman of the Executive of the National Pharmaceutical Union) were the chief guests at the annual dinner and dance of the North London Pharmaceutical Association held recently in London. The function was attended by over 250 members and their guests.

Proposing the toast "The National Pharmaceutical Union" MR. A. ALDINGTON (president) explained that the Association was formed from the North London Branches of the National Pharmaceutical Union and the Pharmaceutical Society. He paid tribute to the work of the Union and its officers, and in particular to the



MR. A. Aldington (president of the Association) in conversation with the chief guests, Mr. J. Hearle (left), and Dr. Charles Hill, M.P. (right), at the Association's annual dinner.

work of Mr. J. Hearle who, after topping the poll in the N.P.U. elections 15 years ago, had served continuously on the Executive. He was sorry that Mr. Hearle was retiring from his office and extended, on behalf of the Association, his best wishes to him in his retirement.

MR. HEARLE, replying, said that on entering business on his own account in London in 1901 he joined the London Pharmacist's Association for the annual subscription of 2s. 6d., and at the first meeting which he attended was elected to a vacancy on the committee, for he was the only non-committee member present. The purposes of the National Pharmaceutical Union, he said, were the promotion of the proprietor pharmacist's welfare, and effi-

ciency and the protection of his rights. The work of the Union had been so efficient that it was difficult to think of any new service it could provide. Efficiency of service to that community should always be its aim.

### Kinship between the Professions

MR. L. G. TRANENT (vice-president of the Association), proposing the toast, "The Ladies and Guests" stressed the need for co-operation between the pharmaceutical and medical professions. MRS. JOAN ALDINGTON replied for the ladies and DR. CHARLES HILL, M.P., for the guests. Dr. Hill underlined the need for fostering kinship between the two professions. "Never has there been such a time" he said, "when the professions need so much to stand together." It was important to pharmacists and other contractors of the National Health Service to co-operate to ensure, for example, the elimination of improper expenditure in the Service, and the security of the present rate of remuneration.

After dinner, dancing and a cabaret followed. Among the other guests present were: Mrs. Skinner and Messrs. A. J. Flood (president of the South East London Association), G. W. Evans, A. E. Footitt (secretary of the North London Pharmaceutical Association), W. S. Giles, C. Norman (social secretary), H. Noble (secretary of the N.P.U.), L. Matthews, H. R. Nightingale (president of the Enfield Chemists' Association), H. Treves Brown and H. G. Rolfe (joint secretaries, British Pharmaceutical Conference) and Dr. H. Davis (chief pharmacist, Ministry of Health).

During the evening Mrs. Footitt presented a bouquet to Mrs. Aldington, and Mrs. Norman presented to Dr. Hill, in Mrs. Hill's absence, a bouquet for his wife.

**How America Sells.**—A team of U.S. sales executives, together with British sales managers, took part in a two-day conference in London on March 13-14. American speakers described how they themselves planned and executed sales in the American market. Afterwards members of the U.S. team flew to various towns in England and Scotland to address local business men. The visit was organised by the Incorporated Sales Managers' Association of Britain and the U.S. organisation, National Sales Executives.



## MISCELLANEOUS INQUIRIES

**Dishorning Cattle.**—*J. T. G.*—The following formula has been published by the U.S. Department of Agriculture Regional Animal Disease Laboratory, Auburn, Alabama, as an improvement on previously used fluids for the dishorning of cattle:—

Antimony trichloride ...	28
Salicylic acid ...	7
Flexible collodion, U.S.P. ...	65

The preparation is usually applied during the first week after the calf is born. The hair should be clipped away from the horn bud and the area cleansed with a swab dipped in spirit. Then with the aid of the glass stopper of the bottle, the preparation is applied to the horn bud, taking care not to touch the surrounding skin. The liquid dries quickly and forms a protective skin over the area, which requires no further attention.

**Russian Scientific Journals.**—*R. L. and C.*—About 100 Russian scientific journals covering medicine, chemistry and physics and other fields come into Britain. The Department of Scientific and Industrial Research, 14 Regent Street, London, S.W.1, issues a list of translated titles of the papers in most of these journals from information supplied by industrial and other organisations receiving them. Copies of the list may be obtained free from the Department. In addition, the Keeper of the Science Museum Library, South Kensington, London, S.W.7, files, catalogues and makes available any English translations of texts of Russian scientific articles that are sent to him. He does not answer telephone inquiries. Names of translated articles received are to be included in an appendix in the Department's list.

**Deterioration of Cider.**—*S. & R., Ltd*  
—The Public Health (Preservatives, etc., in Food) Regulations permit the use of sulphur dioxide in cider to the extent of 200 parts per million. The growth of acetic organisms in cider is largely due to the access of air to the liquid after it has undergone its primary yeast fermentation and is placed in storage vessels. To prevent the development of acidity the storage vessels must be completely filled so that no air space is left above the liquor. There is always a certain amount of evaporation occurring in wooden storage vessels and it is necessary therefore to examine the casks at fairly frequent intervals and to fill up with cider any air space. The wooden

spile should always be replaced after withdrawing from casks in use. After acidity has developed it is very difficult to get rid of the taint. One method of overcoming it is to subject the affected liquor to further fermentation. The simplest plan for this is to take some freshly-pressed apple pomace during the cider-making season and mix the liquor with it. After standing for a few hours the mixture should be pressed, and the extracted liquor allowed to ferment for a short period and then clarified; it should be used as soon as possible after clarification. Re-fermentation reduces the taint, although it does not get rid of it entirely. If this cider is allowed to stand for any considerable time, the acetic condition becomes very noticeable again. Recommended quantities for the process are two gallons of cider to each 100-lb. pomace.

## CORRESPONDENCE

### A Man-power Suggestion

**SIR,**—Owing to man-power shortage I have been unable to take a holiday for over twelve years. May I suggest that the Society should grant some form of licence—say, to men over fifty, who have been registered as student-associates, but have not qualified, to relieve the present shortage—their lives would be comparatively short, therefore would not hurt pharmacists in general, but would help us over our immediate difficulties.

“WORN OUT.”

### Proprietaries Under N.H.S.

**SIR,**—Since research must, in the long run, be financed by the sale of its products, Mr. Bevan's apparent intention of encouraging the use of cheaper copies must quickly make research uneconomical and therefore cause its cessation, with consequent stoppage in the flow of new remedies. A considerable loss may be experienced by pharmacists who are compelled to carry large stocks of proprietaries, if the prescribing of these preparations is debarred. Since the inception of the National Health Service, Scottish pharmacists, despite many obstacles, have provided a first-class pharmaceutical service, and it would be a great pity if it degenerated into a tenth-rate one because of the withdrawal of the doctor's right to be the arbiter of the patient's requirements.

Glasgow, C.3.

DAVID R. BRODIE.

## TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

### 28 Essex Street, W.C.2, Mar. 22

THE markets for PHARMACEUTICAL and FINE CHEMICALS were fairly active during the past week with most products moving well, although several, such as ASPIRIN, are in rather short supply in face of a brisk export demand. Home-trade prices are unchanged. Cape ALOES on the spot is steady but supplies at origin remain short. CANTHARIDES is in poor request. Higher prices are asked for French GENTIAN for shipment and the spot market is tending firmer. Nicaraguan IPECACUANHA prices are again lower on the week. Rather more inquiries are being received for SENEGA but spot prices are unchanged. Tinnevely SENNA LEAVES is a firm market; No. 3's remain in very short supply and prices are fully maintained. There has been a good inquiry for spot Alexandrian senna pods but only inferior qualities are available. CANADA BALSAM is quoted slightly dearer on the spot; supplies are short on the spot and replacements will not be available for some time. A brisk demand is reported for PERU BALSAM and spot prices were further marked up during the week. Interest in GUM ACACIA has been small and prices of Kordofan sorts have declined slightly, although spot quotations are still several shillings above buyers' ideas. TRAGACANTH continues firm with a good inquiry received for the first three grades of white gum.

In the markets for SPICES, a firmer tone developed during the past week for African GINGER; reports from origin tell of keen buying as the season opened, high prices accelerating the speed of harvesting and attracting some inferior-quality ginger. Reports from Jamaica say that the ginger market is active with good prices paid. Interest in the London SHELLAC market is reported to be negligible with prices continuing to decline. In the delivery market business has been very small and all forward positions were lower in price. WAXES are steady with business on a small scale; more inquiries are now being received, however, for CARNAUBA. Interest in ESSENTIAL OILS has been slight with many consumers anticipating a reversal of upward price movements. In most oils, however, there are few signs of any decline. GERANIUM is still firm and there are few offers. SPIKE LAVENDER is short at source and spot prices have advanced slightly. Brazilian SASSAFRAS is a firm market. BERGAMOT is a little easier on the spot with the promise of better supplies. LEMON is firmer in tone because of a hold-up in the granting of import licences. On the other hand, Chinese ANISE, and Ceylon and Java CITRONELLA are easier markets. LINALOL and LINALYL ACETATE (ex bois de rose oil) are dearer.

### U.S. Drug and Chemical Report

New York, March 17

HIGHER raw material and labour costs are given as the reasons for an increase in the price of CALCIUM GLYCEROPHOSPHATE by a leading U.S. producer, who is now asking a minimum price of \$1.80 per lb., against \$1.65 previously. The week, however, has seen lower prices announced for CALCIFEROL, HISTAMINE DIPHOSPHATE, INOSITOL and TYROTHRIN. Domestic CALCIFEROL went down \$2.10-\$2.50 per gm. and the crystalline material, in vials of 250 gm. or more, was quoted at \$1.90, ex works. The Department of Commerce reports that U.S. exports of pharmaceuticals in 1949 reached a new peak of around \$200 millions; shipments to other North American areas—Canada, Mexico, Central America and the West Indies—are estimated to have exceeded the \$47,660,000 sales in the record year 1947. On the other hand, South American countries reduced their purchases to around \$50 millions from \$61,250,000 in the record year 1948; the decline is attributed to shortage of dollars. Sales to Europe were higher in 1949 than in 1948 but were concentrated in a narrow range of products, while a few E.C.A. countries accounted for most of the demand. The outlook for future exports to Europe is not considered as good as in other areas. The Department cites the Far East as the area promising the greatest growth in purchases of American drugs. BOTANICAL DRUGS markets remain quiet, with demand very limited and stocks in the hands of dealers small. SENEGA has become quite firm as a result of an increase in demand for export. WITCHHAZEL LEAVES are in short supply and scarcity of LOBELIA has brought about a nominal market. A new export tax on Zanzibar CLOVES is thought likely in trade circles here. A number of ESSENTIAL OILS display a firm tone and some recent price advances have been fully maintained. Floral oils are particularly strong with Bourbon GERANIUM well in the lead on account of shortage.

### Pharmaceutical Chemicals

*p*-AMINOSALICYLIC ACID. — Prices are lower; 1-kilo lots are £8 5s. per kilo less 12½ per cent. to wholesale distributors.

BARBITONE.—Rates per lb. are as follows:—1 cwt., 35s.; 28 lb., 36s.; 7 lb., 37s.; 1 lb., 38s. The SODIUM SALT is 1s. per lb. more than the base.

BENZOIC ACID.—B.P. quality is now quoted from 2s. 4d. to 3s. 2d. per lb.; SODIUM SALT is from 2s. 2d. to 3s. per lb.

BENZYL BENZOATE. — Makers offer B.P. grade at from 4s. 3d. to 5s. per lb.



CALAMINE.—1-cwt. lots are now quoted 1s. 9d. per lb.

CALCIFEROL.—1-kilo lots (in 25-gm. ampoules) are quoted at 5s. 6d. per gm.

CALCIUM GLUCONATE.—Quantities of upwards of 3 cwt. are quoted at 3s. 6d. per lb.; 1 cwt.-2 cwt., 3s. 7d. per lb.; smaller quantities up to 3s. 10d. per lb.

CALCIUM SUCCINATE. — Quotations are from 9s. 6d. to 12s. 6d. per lb., as to quantity. SUCCINIC ACID is from 8s. 6d. to 1s. 6d. per lb.

CHLOROFORM.—1-cwt. lots in winchesters are now 3s. 2½d. per lb.; 56-lb., 3s. 3d. in drums, prices are 3s. 1d. and 3s. 1½d. per lb., respectively.

CINCHOPHEN.—1-cwt. lots are quoted at 3s. per lb., with smaller quantities up to 30s. per lb.

COCAINE. — Current rates per oz. are: ALKALOID, CITRATE and SALICYLATE, bottles, ¼-oz., 89s.; ½-oz., 85s.; 1-oz., 82s. 6d.; 2-oz., 80s. 6d.; 4-oz., 79s. 3d.; 8-oz., 78s. 3d.; 16-oz., 75s. 3d.; tins, 25-oz., 9s. 9d. HYDROCHLORIDE, NITRATE and SULPHATE, bottles, ¼-oz., 79s.; ½-oz., 75s.; 1-oz., 72s. 6d.; 2-oz., 70s. 6d.; 4-oz., 69s. 3d.; 8-oz., 68s. 3d.; 16-oz., 65s. 3d.; 25-oz., 64s.

HEXAMINE. — B.P. is offered at from 1s. 8d. to 2s. per lb., as to quantity.

HEXOBARBITONE.—Quotations are in the region of 77s. per lb. for small quantities.

HEXYLRESORCINOL. — B.P.C. material is quoted at from 175s. to 190s. per lb.

HYDROCYANIC ACID. — B.P.C. (Scheele's) is quoted at 1s. 5½d. per lb. and B.P. at 1s. 1½d. per lb.

HYDROQUINONE.—Bulk rates are as follows: 10 cwt., 9s. 6d.; 5 cwt., 9s. 9d.; 2 cwt., 10s.; 28 lb., 11s.; 14 lb., 11s. 3d.; 7 lb., 11s. 6d. per lb. Carriage paid in U.K.

HYOSCIINE HYDROBROMIDE. — Makers' prices are from 115s. to 125s. per oz., according to quantity.

PEPSIN.—In 28-lb. lots, B.P. is 26s. 9d. per lb. and U.S.P. is 29s. per lb.

PILOCARPINE.—ALKALOID is now quoted at from 41s. (25-oz.) to 42s. 3d. (4-oz.) per lb.; HYDROCHLORIDE is from 38s. to 9s. 3d. per oz., and NITRATE, from 36s. 6d. to 37s. 3d.

POTASSIUM BROMATE. — Makers' prices per lb. are as follows:—One cwt., 5s. 3d.; 6-lb., 5s. 9d.; 28-lb., 6s. 3d.; smaller quantities up to 6s. 9d.

SULPHAGUANIDINE. — 1-cwt. lots are 9s. 3d. per lb.; 14-lb. lots are now 20s. 6d. per lb.

TERPINEOL.—B.P. quality in 1-cwt. lots is now 3s. per lb., with smaller quantities up to 3s. 6d. per lb.

THEOPHYLLINE. — Prices of ALKALOID range from 60s. to 65s. per lb., as to quantity; with ethylene diamine (AMINOPHYLLINE B.P.) similar prices are quoted.

## Crude Drugs

ACONITE.—Indian is offered at 260s. per cwt., on the spot; *napellus*, 3s. 10d. per lb., spot, duty paid.

AGAR. — Kobé No. 1, now landing, is quoted at 9s. 6d. to 10s. per lb., duty paid; for shipment, 8s. to 8s. 3d., c.i.f.

ALOES.—Quiet. Cape is offered at from 115s. per cwt., spot; for shipment, nominal. Curacao is quoted at from 220s. to 225s. per cwt., spot; forward, 215s., c.i.f.

BALSAMS.—Supplies of *Canada* on the spot are small and 18s. 6d. per lb. is now asked. *Pará Copaiba* is unchanged at 8s. per lb., duty paid (7s. 6d. in bond). Trade in *Peru* has been brisk and 7s. to 7s. 3d. per lb., duty paid, is now quoted. Spot quotations for *Tolu* are at 19s. per lb.

BUCHU. — Short rounds are quoted at 3s. 3d. per lb., on the spot; new-crop for shipment, 3s. 1d., c.i.f. Ovals are quoted at 3s. per lb., spot.

CAMPHOR. — Chinese tablets are quoted at from 5s. 6d. per lb. for ¼-oz. and from 5s. 3d. for ½-oz.; 2½-lb. slabs are from 5s. to 5s. 3d. per lb.; all duty paid, spot London. Refined powder (B.P.) is offered at from 3s. 10½d. to 4s. 6d., duty paid; and B.B. grade, 3s. 6d. per lb., duty paid, spot. B.P. powder, afloat, is quoted at from 3s. 9d., landed, duty paid.

CANTHARIDES. — Little interest in this market; Chinese on the spot are about 5s. 6d. per lb.

CAPSCUMS. — African on spot is 150s. to 280s. per cwt., as to quality and origin.

CARDAMOMS.—Green Aleppy on the spot, offered at 18s. per lb.; Aleppy seeds, of good quality, are available at 28s. 6d. per lb.

CASCARA SAGRADA.—Quotations for 1949 peel are at 285s. per cwt., duty paid, spot.

CASCARILLA. — Quills on the spot are 1s. 3d. per lb.; siftings are offering at 1s.

CASSIA PODS.—(*C. fistula*).—Indian is quoted at from 62s. 6d. to 65s. per cwt., ex wharf London.

CHAMOMILE FLOWERS. — Belgian on the spot are from 3s. 1d. to 3s. 9d. per lb., duty paid, as to quality.

CHILLIES.—Mombasa on the spot, valued at 300s. per cwt.; for shipment, 260s., c.i.f., nominal.

CINNAMON.—Ceylon to come forward is quoted (c.i.f.) as follows:—0000, 2s. 2½d.; 000, 2s. 2d.; 00, 2s. 1½d.; 0, 2s. 0½d.; firsts, 1s. 3½d.; seconds, 1s. 2½d.; thirds, 1s. 2d.; fourths, 1s. 1½d.; quillings, 10½d.; featherings, 6d.; chips, 3½d. per lb.

CLOVES.—Zanzibar at origin are quoted as high as 1s. 9½d. per lb., c.i.f., for April-May shipment. Supplies on the spot are offered at 1s. 7d. to 1s. 7½d. per lb.; afloat, 1s. 6½d. per lb., c.i.f.

COLOCYNTH.—White pulp on the spot is quoted at 2s. to 2s. 1d. per lb.



**GENTIAN.**—Firm. French natural on the spot is quoted at 72s. 6d. to 75s. per cwt. Origin is asking high prices.

**GINGER.**—Increased activity produced a rise in spot prices of new-crop African which is now quoted at from 300s. to 305s. per cwt.; March-April shipment, business done at 275s. per cwt. but sellers are now asking 285s., c.i.f. Jamaican No. 3 is steady on the spot at 360s. per cwt., with new-crop offered at 312s. 6d., c.i.f., for March-April shipment.

**GUM ACACIA.**—Quiet. Kordofan cleaned sorts on the spot, offered at 86s. per cwt., spot London or Liverpool; March-April shipment, 80s. 6d., c.i.f. Bleached gum, 145s., spot. Talha is 50s. per cwt., on spot; shipment, 48s., c.i.f.

**IPECACUANHA.**—Easier. Nicaraguan, for April-May shipment, is quoted at 35s. 6d. to 36s. per lb., c.i.f.; spot, from 38s. to 39s. per lb. Colombian is offered at from 32s. 6d. per lb., spot; shipment, 30s. per lb., c.i.f.

**LIQUORICE.**—Anatolian natural root on the spot is quoted at from 52s. to 54s. 6d. per cwt. Turkish black juice is quoted at from 160s. to 230s., duty paid, according to holder. Turkish stick is from 300s., duty paid. Italian stick is from 285s. to 475s. per cwt., duty paid, for druggists' grades.

**MENTHOL.**—Brazil is steady on the spot at 85s. per lb., duty paid; in bond, 82s. Chinese is offered at 87s. 6d. per lb., in bond.

**OLIBANUM.**—Best drop is quoted at from 220s. to 225s., and medium drop at 190s.; peas are 200s.; fair garblings, 125s., siftings are dearer at 110s. per cwt., spot.

**OPIMUM.**—Steady. Turkish on the spot is quoted at 7s. per unit.

**ORANGE PEEL.**—A fair inquiry. Thin cut Tripoli is quoted at 1s. per lb., duty paid, spot; bitter quarters are 1s. 3d. per lb., duty paid, spot, nominal.

**ORRIS ROOT.**—Verona is quoted at 70s. per cwt., ex wharf London.

**PAPAIN.**—East African white, on the spot, is from 15s. 6d. to 16s. 3d. per lb.; Ceylon brown, from 11s. to 12s., spot.

**PIMENTO.**—Spot quotations are from 1s. 5½d. per lb.; for shipment, 168s. 6d., c.i.f., quoted.

**PODOPHYLLUM.**—Indian (*emodi*) on the spot is from 320s. to 335s. per cwt., as to test. American (*pellatum*) is nominal at about 280s. per cwt., spot.

**OUASSIA.**—Steady. Chips on the spot are quoted at from 33s. to 35s. per cwt.

**QUILLATA.**—Easier. Natural bark on the spot is offering at 150s. per cwt.; to arrive, 135s., c.i.f.

**RHUBARB.**—Chinese rough round now landing is offered at from 7s. to 7s. 6d. per lb., in bond.

**SARSAPARILLA.**—Steady. Jamaican native red, on the spot, is quoted at 2s. 3d. per lb.; shipment, 2s. 1d., c.i.f., paid.

**SEEDS.**—In poor demand. **ANISE.**—Turkish, 155s. per cwt., in bond, spot 165s. per cwt., duty paid, spot London. Egyptian, 150s. per cwt., in bond, spot London. **CARAWAY.**—Sellers of Dutch at 120s. per cwt., duty paid, in London. **CELERY.**—Indian is quoted at 1s. 10½d. per lb., and French, 250s. per cwt., duty paid, spot London. **CORIANDER.**—Market remains firm. Morocco, on spot in London, is 110s. per cwt., duty paid, and 105s. per cwt., in bond. A little business reported in new crop for June-July shipment at 67s. 6d. per cwt., c.i.f. London. **CUMIN.**—Morocco, spot London, is offered at 160s. per cwt., in bond, and 175s. per cwt., duty paid. Cyprus is nominal at 195s. per cwt., spot London. **DILL.**—Indian is unchanged at 62s. 6d. per cwt., spot, and 56s. per cwt., c.i.f. London. **FENNEL.**—Sellers of Indian at 75s. per cwt., spot London. **FENUGREEK.**—Morocco is 57s. 6d. per cwt., duty paid, and Indian, 62s. 6d. per cwt., both spot London.

**SENNA.**—No. 3 Tinnevely leaves on the spot continue scarce. Spot quotations for No. 1 leaves are from 9½d. to 11d.; No. 2, 7½d. to 8½d.; No. 3, prime, 7½d. to 7½d., nominal. Tinnevely pods are from 8½d. to 11½d. per lb., spot; manufacturing, from 5½d. to 6d. A good inquiry is being received for spot Alexandrian pods but no good quality available; medium grades are about 2s. 6d. per lb., and manufacturing, 8d. per lb.

**SHELLAC.**—The spot market is easier. F.O.T.N., pure, is 290s. per cwt.; F.O. Standard 1, 300s.; fine orange, 330s. to 370s. Prices of forward positions continue to decline.

**TRAGACANTH.**—In fair demand. White ribbon, selected, is quoted at £130 per cwt.; No. 1, £120; No. 2, £110; No. 3, £100; No. 4, £65, spot.

**VALERIAN.**—Spot quotations are from 195s. to 215s. per cwt. for Belgian root.

**WAXES.**—The markets continue steady. Dar-es-Salaam BEES' is offered at 400s. per cwt., spot, and 380s., c.i.f., for March-April shipment. No offers of Benguela on the spot; for shipment, 335s., c.i.f., quoted. Abyssinian, 375s. per cwt., spot, duty paid; shipment, 335s., c.i.f. Madagascar No. 2 is quoted at 345s. per cwt., duty paid (in bond, 315s.); shipment, 310s., c.i.f. **CANDELLILLA.**—Spot quotations are at 435s. per cwt.; April delivery, 430s. **CARNAUBA.**—Prime yellow, 900s. per cwt., spot; forward, 885s., c.i.f. Fatty grey, 660s. per cwt.; forward, 640s., c.i.f. **MONTAN.**—Reibek is quoted at 160s. per cwt., spot; for shipment, 145s., c.i.f. **OURICURI.**—0.5 per cent. impurities, 660s. per cwt., spot; 1.5 per cent., 650s., spot; 3.5 per cent., 640s., spot.

## Essential and Expressed Oils

**ALMOND.**—English-expressed sweet oil (B.P.) is from 4s. 6d. per lb.; Spanish quoted at from 3s. 3d. to 4s., as to grade. Bitter, s.a.p., on the spot, is from 8s. to 60s. per lb., as to grade.

**ANISE.**—Prices for original drums are from 10s. 9d. to 11s. per lb.; drums, for shipment, are quoted at 10s. 3d., c.i.f.

**BAY.**—West Indian on spot is quoted at from 6s. to 7s. 6d. per lb.

**BERGAMOT.**—Supplies on the spot are quoted from 32s. to 35s. per lb.; for shipment, 31s. 9d., c.i.f.

**BOIS DE ROSE.**—Quotations are from 24s. to 27s. 6d. per lb.; forward, 22s. 6d., c.i.f.

**CADE.**—Spanish oil, B.P., on the spot, is offered at from 3s. to 4s. per lb.

**CAJUPUT.**—Steady. B.P. is quoted at from 16s. to 18s. per lb., spot.

**CARAWAY.**—English-distilled is offered at from 36s. to 40s.; imported oils are offered at from 22s. to 27s. 6d. per lb., spot.

**CINNAMON.**—B.P. oil on the spot is quoted at prices ranging from 50s. to 100s. per lb. Bark oil is offered at from 14s. to 20s. per oz. Seychelles leaf oil is in fair supply at from 8s. per lb., spot.

**CITRONELLA.**—Spot quotations are in the region of 8s. 3d. to 8s. 9d. per lb.; March-April shipment, 7s. 11d., c.i.f. Java is quoted at 18s. 6d. per lb., spot; forward, 16s. 6d., c.i.f.

**CLOVE.**—English-distilled bud oil is offered at from 13s. 9d. to 14s. 6d. per lb., according to quantity; Madagascar is nominal at from 8s. 9d. per lb., and Zanzibar from 9s. 3d., spot.

**COPAIBA.**—Spot offers are at from 4s. 6d. to 15s. per lb.

**CORIANDER.**—English-distilled is quoted at about 250s. to 260s. per lb. Dutch is offered at from 180s. to 187s. 6d., duty paid; Russian, 220s., duty paid.

**CUBEBS.**—Steady. Supplies of English-distilled offered at from 50s. to 55s. per lb. Imported is quoted at from 52s. to 55s.

**CUMIN.**—Quotations for English-distilled are at about 70s. per lb.

**DILL.**—English-distilled oil is quoted at from 57s. per lb. for B.P. quality. Indian is offered at 18s. 6d. per lb., spot, Dutch is from 54s. 6d. to 57s. 6d., landed, duty paid; 49s. per lb., c.i.f.

**EUCALYPTUS.**—Firm. 70-75 per cent. (B.P.) is from 5s. 3d. to 5s. 9d. per lb., spot; 80-85 per cent., 5s. 6d. to 6s. per lb., spot.

**LAVENDER.**—French, 38-40 per cent., on spot is offered at from 21s. to 24s. per lb.; 40-42 per cent., 22s. to 25s. Spanish spike is firm at 10s. per lb., spot.

**LEMONGRASS.**—Spot quotations are from 15s. 6d. per lb.; March-April shipment, 14s. 5d., c.i.f., sellers.

**ORANGE.**—West African sweet on the spot is from 8s. 6d. to 10s. per lb. Palestinian sweet is from 9s. 6d. to 10s. 6d. per lb., spot. Sicilian bitter, 17s. per lb., c.i.f. London; on the spot, from 19s. to 20s. British West Indian sweet is from 10s. 9d. to 11s. per lb., spot.

**PATCHOULI.**—Quiet. Singapore is offered at 140s. per lb., spot; for shipment, 120s., c.i.f., indicated.

**PEPPERMINT.**—Chinese (*M. arvensis*) on the spot is now offered at from 43s. to 45s. per lb.; afloat, 42s., c.i.f.; March-April, 40s., c.i.f., in drums. *Piperita* is offering at from 60s. to 65s. per lb., spot, as to holder and grade.

**ROSEMARY.**—Spanish on spot is offered at 7s. 6d. to 8s. 6d. per lb., as to grade.

**SAGE.**—Dalmatian is offered at prices around 12s. 6d. per lb., spot.

**SANDALWOOD.**—Mysore is from 75s. per lb., spot; English-distilled, nominal.

**SASSAFRAS.**—Brazilian is quoted at from 5s. 6d. to 6s. per lb., spot, duty paid.

**SPEARMINT.**—Dutch-distilled is quoted at 34s. to 38s. per lb., spot, duty paid.

**THYME.**—Steady. Red oil (40-42 per cent. phenols), 10s. 6d. to 12s. 6d. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

**TI-TREE.**—Quotations are from 6s. 6d. to 8s. per lb., according to quantity.

**VETIVERT.**—Bourbon on spot is quoted at around 90s. to 95s. per lb., as to grade.

## SWISS CHEMICAL INDUSTRY

SWITZERLAND's chemical industry is looking to the liberalisation of intra-European trade to enable it to reinstate workers laid off in the course of 1949. As nearly half of Switzerland's total exports of chemical and pharmaceutical products go to European destinations, it is anticipated that the lifting of import quotas will give a strong filip to sales. Overall Swiss exports of chemicals and pharmaceuticals last year—which normally constitute about one-sixth of Switzerland's total export trade—declined somewhat from the 1948 level, reflecting saturation of foreign markets, keener competition by other countries and reduced purchasing power of various consumer nations. Exports of chemical and allied goods, however, rose sharply in December 1949. They amounted to (figures in million Swiss francs) 54.0, compared with 40.3 in the previous month. Exports of pharmaceutical products increased by 3.3 to 19.3, industrial chemicals from 6.3 to 6.8 and cosmetics from 2.0 to 2.6. It is understood that the recent increase in the value of pharmaceutical exports is largely owing to rising prices.

## TRADE MARKS

(From "The Trade Marks Journal," March 8)

For toilet and cosmetic bags (18).—"GLINA"; by Jarrett, Rainsford & Laughton, Ltd., Birmingham; 683,247.

For hearing aids (10).—"TELEX"; by Telex Inc. St. Paul 661,663.

For sterilising preparations (5).—"STERODEX"; by Deodor-X Co., of England, Ltd., Ellesmere Port; 684,872.

For perfumes (3).—"GRIFFONNAGE"; by La Gaine Scandale, Lyons; 682,753.

For metal toilet mirrors (20).—"METCO"; by Metal Mirror Co., Ltd., Walsall; 683,961.

For combs and toilet brushes (21).—"HARLENE"; by Edwards Harlene, Ltd., London, W.C.1; 670,292.

For comb-cases, toilet-powder flasks, powder puffs, etc. (21).—"STARFERST"; by Ben Ferst, London, S.W.1; 671,267.

For medical and surgical plaster (5).—"SUPADENE"; by Dene Quarries (Derbyshire), Ltd., Matlock; 678,846.

(From the "Trade Marks Journal," March 15)

For scientific, photographic, agricultural and horticultural chemical products (1).—"CATAREX"; by Petrochemicals, Ltd., London, W.1; 677,102.

For all goods (1).—"SPARMADRYL"; by Yab, Nogent-sur-Marne; 680,923.

For fertilisers and manures (1).—"SEAMURE"; by Seamus, Ltd., Bristol; 683,479.

For industrial chemicals (1).—"MIRAVON"; by Glovers (Chemicals), Ltd., Leeds 683,385.

For non-medicated toilet preparations (3).—"FASHION PLATE"; by Revlon Products Corporation, New York; B668,029. "BRUYERE" (in distinctive lettering); by Bruyere-Parfums, S.A., Paris; 671,236. "DYMAR"; by High Street Pharmacy, Alfreton; 681,519. "LITTLE WINGS"; by Norman Hartnell, Ltd., London, W.1; 685,069. "FOOLISH THINGS" "AMO AMAS"; by R. Demuth, Ltd., London, N.W.6; 685,184-86.

For all goods (3).—"FACTRON"; by Factron Products, Ltd., London N.W.11; 685,131.

For detergents (3).—"SCRUBBS" (on label device); by Scrubb & Co., Ltd., Wimbledon; 683,361.

For pharmaceutical preparations (5).—"NORTEST"; by Wallace (Pharmaceutical Products), Ltd., London, N.W.3; 678,267. "ULTREX"; by Ulster Chemists, Ltd., Belfast; 676,906. "HARTSIP"; by James Hart (Chemists), Ltd., Bolton; B683,528. "NAPHTHIOREX"; by Laboratories Om Soci   Anonyme, Geneva; 683,712. "AMEBOQUIN"; by Boots Pure Drug Co., Ltd., Nottingham; 683,785. "ACIMETON"; by Continental Laboratories, Ltd., London, W.C.1; 684,260. "LIAFON"; by E. R. Squibb & Sons, New York; 684,299. "NOXOMIN"; by Clinical Products, Ltd., Richmond; 684,376. "UROZERO"; by Teresita Rahamin, London, N.1; 684,737.

For infants', invalids' and dietetic foods (5).—"HEINZ" (on label device); by H. J. Heinz Co., Ltd., London N.W.10; 683,405.

For laxative tablets (5).—"TOAT LAX"; by Frank Thomas Priest, Lancing; 676,109.

For all goods (5).—"CASSINAL"; by Glaxo Laboratories, Ltd., Greenford; 680,702. "SPASMADRYL" "ANTALBY" "SEDALBY"; by Yab, Nogent-sur-Marne; 680,924-29. "PROPASA"; by Sharpe & Dohme, Ltd., Hoddesdon; 685,040. "ANAPOLON"; by Imperial Chemical (Pharmaceuticals), Ltd., London, S.W.1; 685,593.

## COMING EVENTS

### Monday, March 27

HALIFAX BRANCH, PHARMACEUTICAL SOCIETY, Boar's Head Hotel, Southgate, Halifax, at 7.30 p.m. Mr. A. R. G. Chamings, B.Pharm., Ph.C., on "Antihistaminics and the Present Position," and film show.

### Wednesday, March 29

BOLTON PHARMACEUTICAL ASSOCIATION, Aspin Hall, Bolton, at 6.30 for 7 p.m. Annual dinner and dance.

BRADFORD BRANCH, PHARMACEUTICAL SOCIETY, Bankfield Hotel, Cottingley, at 7.30 p.m. Annual dinner and dance.

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY Medical Library, Sheffield University, at 7.45 p.m. Mr. H. M. Hirst (a member of Council) on "The Registrar's Report for 1949."

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Green Man Hotel, Bromley Road, London S.E.6, 7.30 p.m. to midnight. Dance in aid of Society's Benevolent Fund. Ticket 7s. 6d.

WOLVERHAMPTON CHEMISTS' ASSOCIATION, Povey's Restaurant, Victoria Street, at 7.30 p.m. Association meeting.

CHEMICAL SOCIETY, Chemistry Department, King's Buildings, Edinburgh, at 11 a.m. Presidential address, "The Chemical Society—A mid-century Review," by Sir Ian Heilbron.

### Thursday, March 30

DARTFORD BRANCH, PHARMACEUTICAL SOCIETY, Wellcome Club, High Street, Dartford, at 8 p.m. Mr. G. J. Hackforth-Jones, M.A., on "The Creation of Perfume."

PORTSMOUTH CHEMISTS' ASSOCIATION, Solent Hotel, South Parade, Southsea, at 7.30 p.m. Mr. I. Macdonald, M.P.S., on "Marketing Research as it Affects Retail Pharmacy." Non-members invited.

WESTERN LONDON PHARMACEUTISTS' ASSOCIATION, Connaught Rooms, Great Queen Street, London W.C.1, at 6 for 6.30 p.m. Annual dinner and dance.

### Friday, March 31

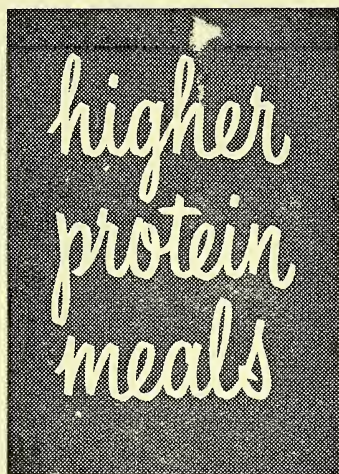
EDINBURGH AND SOUTH-EASTERN SCOTTISH BRANCH PHARMACEUTICAL SOCIETY, 36 York Place, Edinburgh, at 7.30 p.m. Annual meeting and talk by Mr. J. C. Somerville, M.P.S., on "Current Pharmaceutical Affairs."

LONDON BRANCH, GUILD OF PUBLIC PHARMACEUTISTS, 17 Bloomsbury Square, London, W.C.1, at 7 p.m. Annual meeting.

**Parathion Antidote.**—The dose of atropine to be administered as an antidote to the insecticide parathion (diethyl *p*-nitrophenylthiophosphate) (see *G. & D.*, March 4, p. 285) is gr. 1/30, and not as there stated.



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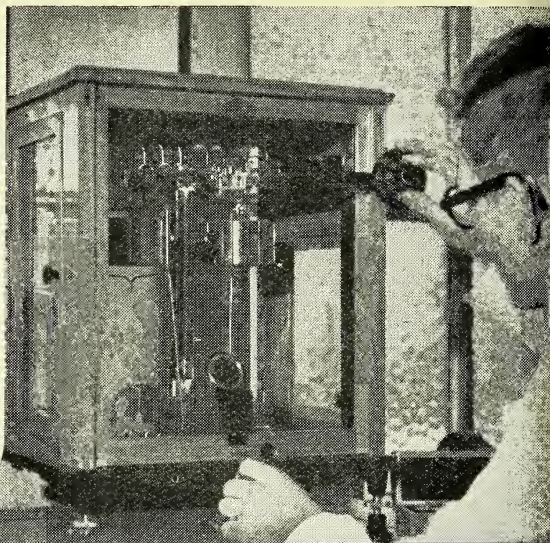
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Straw hats are fashionable again, but the sun of last year's Summer has faded most of them. More and more women are asking for Luton Straw Hat Dyes, so stock up now to meet this demand.

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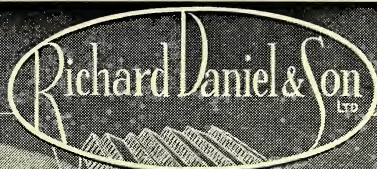
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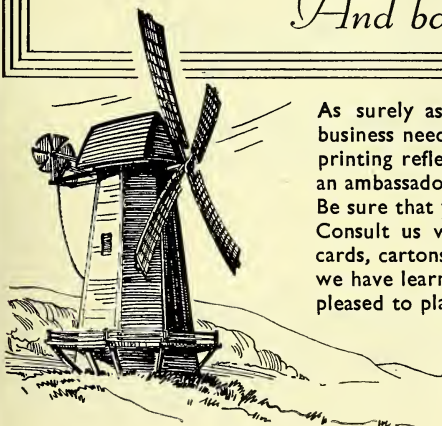
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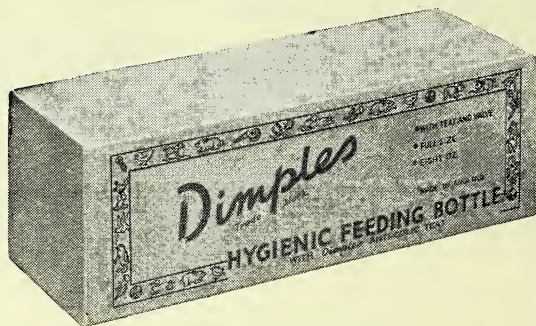




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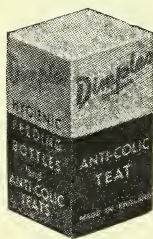


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Dimples is a reliable chemists' line which will bring constant repeat business. The attractive buff cartons, printed in blue with nursery border, have an outer wrapping of transparent tissue to prevent soiling in stock or on display.

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Double-ended 8 oz.	9/-	8/9	8/6 per doz.
No. 1 upright 8 oz.	8/-	7/9	7/6 „ „
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No. 1 upright 4 oz.	7/6	7/3	7/- „ „



*You should also sell Dimples Teats. They are in regular demand. The cartons are printed as illustrated to match the feeder cartons. One dozen teat cartons supplied in printed display outer. PRICE 2/- per dozen, 21/- per gross.*

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WASHABLE  
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3 inches, Retail 5/2d. each (less 33 $\frac{1}{3}$ %)  
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The fine, silky texture of this flesh-tint crepe bandage renders it less conspicuous than others, and this quality together with its enduring firmness combine to make it the best bandage of its kind on the market.

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**DEODORANT  
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**The revolutionary "WIPE-AWAY" method of  
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Here is the right way to apply a deodorant . . . by PADS that are thrown away! 5-DAY PADS are back with a NEW and BETTER FORMULA . . . small circles of fabric saturated with a MORE ACTIVE anti-perspirant . . . PLUS a MORE EFFECTIVE deodorant! Everyone SEES INSTANTLY how easy PADS are to apply. No messy cream! No drippy liquid! In 5-DAY PADS women have the one deodorant that really works without fuss or bother . . . and in no time at all . . . it dries instantly. Easy to see, too, that it cannot harm clothes . . . the solution doesn't harm the pads!

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**1/3 (Incl. tax)**

Screw-top jar of 10 pads on self-selling card

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**FREE DISPLAY  
MATERIAL** Each  
small size has its own  
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for 6 medium-size jars

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**ORDER NOW!**

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The large turnover of  
**RED CARNATION**  
Brand Gum Tragacanth  
ensures freshness and ob-  
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**RED CARNATION**  
Brand is packed in 14-lb.  
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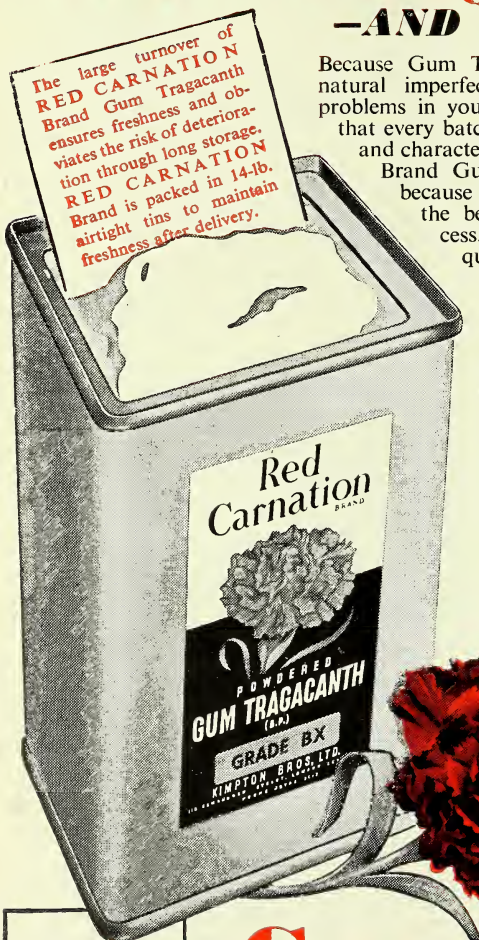
Because Gum Tragacanth is a natural product with natural imperfections and variations, it can create problems in your production—unless you can be sure that every batch you use has exactly the same quality and characteristics. The use of **RED CARNATION** Brand Gum Tragacanth solves these problems, because it is standardised in grades to provide the best type for every manufacturing process. And, because you can rely on the quality of **RED CARNATION** Brand, it's much more economical to use too.

## RELIABLE STANDARDS OF QUALITY

When you specify **RED CARNATION** Brand Gum Tragacanth you know that every consignment you receive will be stabilised as regards viscosity, colour and fineness of powder. These standards are established under expert supervision and scientifically checked at every stage of processing, the product being ground by a special process to ensure controlled tenuity.

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BRAND

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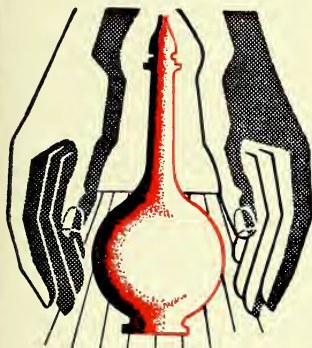
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*Telegramms : Dazzling London*

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a safe and highly effective local  
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Made of high-grade viscose  
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*with every member of the family . . . .*

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These grand aids for skin-care have been giving confidence and satisfaction for over 65 years.

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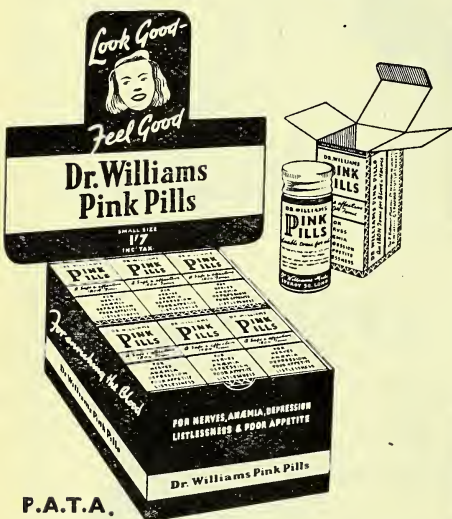
*Medical literature to pharmacists on request*

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*for Smith Kline & French International Co., owner of the trade marks 'Pendex' and 'Paredrinex'*



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## Dr. Williams Pink Pills

PACKED IN GLASS TUBES IN  
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TRADE MARK

*This new product, limited supplies of which are now available, will be of immediate interest to the medical profession because of its important advantages over the oily preparations of procaine penicillin.*

- 'Avloprocil' A.S. contains no oil: it is a sterile and stable aqueous suspension of procaine penicillin G, each c.c. equivalent to 400,000 units of penicillin.
- It is ready for immediate use, easily drawn into the syringe, and injected without difficulty. Needles and syringes need not be dried before use. They can be sterilised by boiling, and are easily cleaned by rinsing in water.
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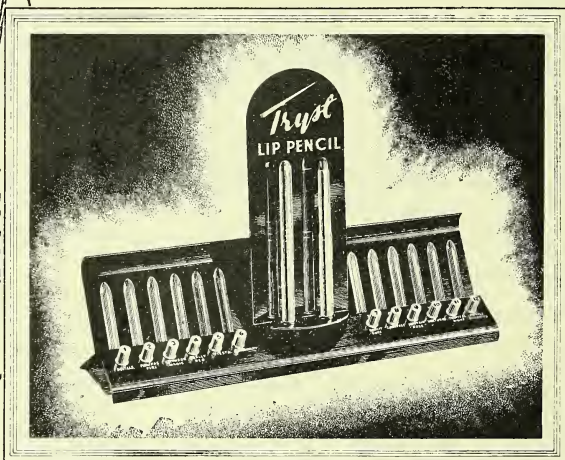
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 with the  
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Boxes of 60 Tablets

Dispensing Size : Tins of 1,000 Tablets

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(including Tax)

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per doz.

"NERVONE"

Cecil House, Holborn Viaduct, London

## BEAR BRAND HONEY

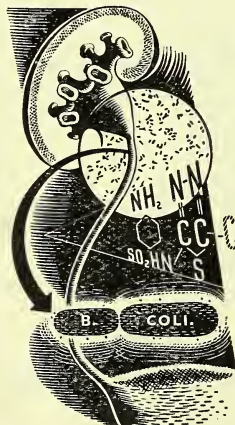


For  
**Purity  
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As direct importers from all the main Honey-producing Countries of the World, we can supply Standard Grades of the finest Honey for all Manufacturing purposes.

Supplied in 7-lb. and 56-lb. tins and in barrels

**L. GARVIN & CO. LTD.**  
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Telephone: HOUnslow 3483 (3 lines)



## UROLUCOSIL

2—SULPHANILAMIDO, 5—METHYL, 1, 3, 4—THIODIAZOLE

UROLUCOSIL is a new sulphonamide for the specific treatment of B. coli infections of the urinary tract; general practitioners treat such infections very frequently.

- Important points about UROLUCOSIL are:—
- Small dosage (0.1 G.) 4 hourly.
  - No side effects.
  - Great solubility—98% at a pH of 7.
  - No depression.

Physicians throughout the United Kingdom are being informed personally, in interviews with medical representatives, by mail and by advertising in the medical journals, of the properties of UROLUCOSIL. Pharmacists are advised to hold stocks sufficient to meet prescription demands.

UROLUCOSIL IS LISTED AS  
PART I, SCHEDULE I, SCHEDULE IV POISON  
and is not subject to purchase tax.  
It is available in bottles  
of 25 tablets and 250 tablets.

**William R. WARNER and Co. Ltd.**  
POWER ROAD, LONDON, W4

## NEW PRODUCT INFORMATION

trade  
mark

# 'DISTAQUAINE' G

brand

**Composition :** crystalline penicillin G procaine plus a suspending agent.

**Packings and Prices :** rubber-capped injection-type vials of (a) 300,000 i.u. penicillin, boxes of 5 vials, 20s. 0d. (b) 900,000 i.u. penicillin, boxes of 5 vials, 42s. 6d. ; subject to discount.

**Immediate supplies** are available from our Distributors :

Allen & Hanburys Ltd.

British Drug Houses Ltd.

Burroughs Wellcome & Co.

Evans Medical Supplies Ltd.

Imperial Chemical (Pharmaceuticals) Ltd.

Pharmaceutical Specialities (May & Baker) Ltd.

or from your usual wholesaler.

**NOTES :** 'Distaquaine' G, which is issued as dry substance, is designed to form a suspension on the addition of sterile distilled water or other suitable aqueous vehicle. The formula contains neither oil nor wax. Preparation of the suspension is simple and convenient and may be carried out extemporaneously by the physician. A single dose (300,000 i.u. penicillin) gives a prolonged depot effect and normally maintains an effective blood level during 24 hours.

Manufactured by

THE

**DISTILLERS COMPANY (BIOCHEMICALS)**

SPEKE

LIMITED

LIVERPOOL



ADAPTOPLAST

HEALO OINTMENT

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Obtainable only direct from :

**CUXSON, GERRARD & CO., LTD.**  
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**PEBOCILL**  
MANUFACTURERS OF  
**VITAMIN D3**

*Enquiries**to*

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WATER STREET,  
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LABORATORIES · GREENFORD · MIDDX



Keen buyers buy

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BRAND  
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and Kay's Compound Pastilles in 50/- lots.  
Mixed parcels are very profitable

3 doz. 1/7 Kay's Linseed Compound	
@ 10/3 doz.	£1 10 9
3 doz. 1/11 Kay's Compound Pastilles	
@ 12/- doz.	1 16 0
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Add Purchase Tax	1 3 3
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Selling Price	£6 6 0

From your wholesaler or direct from  
**KAY BROTHERS LTD., REDDISH, STOCKPORT**

# ***It's a Winner!***

## **MACLEANS EXTRA LARGE TOOTH PASTE**

PER **2/-** TUBE

***Gives  
Big Value for Customers—  
means Big Sales for you***

RETAIL PRICE	PRICE PER DOZEN			
	Standard Wholesale Terms	Intermediate Terms	Best Terms	Purchase Tax
2/-	14 <sup>1</sup> / <sub>2</sub>	13 <sup>1</sup> / <sub>6</sub>	12 <sup>1</sup> / <sub>6</sub>	4 <sup>1</sup> / <sub>8</sub> <sup>2D</sup> <sub>3</sub>

★ MINIMUM PACK ONE DOZEN. Orders for the extra large size Tooth Paste can be included to make up the value of display parcels.

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**FOR RHEUMATISM  
GOUT, SCIATICA, NEURITIS, ETC.**

**CURICONES**

the trusted remedy that has stood the test  
of time

**STANDARD PACKS**



**5/6 and 26/5**

including purchase tax

**P.A.T.A.**

**HAVE YOU ORDERED THE NEW  
"DISPENSING ONLY" PACK  
WHICH IS NOW AVAILABLE ?**

These contain 500 CAPSULES and are free  
of purchase tax

**Price 28/2**

**NEW BOOKLET  
FOR RHEUMATIC SUFFERERS**

This is an authoritative treatise on Rheumatic complaints written in language that the layman can easily understand. Copies are now being included in both the 5/6 and 26/5 size Curicones Cartons, and supplies are also available to chemists FREE on request.

Mention is being made of this booklet in our National Advertising and readers are invited to ask their chemist for a copy. Make sure you have a supply of these booklets on hand.



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NOVELTY SHOWCARDS**

Printed in bright, attractive  
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Send us your name and  
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**KILKOF**



As a remedy for coughs,  
colds, catarrh, bronchitis  
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KILKOF has for years been  
a household word. Widely  
advertised during the winter  
months. Retail 1/6  
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**PARKINSONS  
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Of all  
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done more to build up  
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**PARKINSONS' PILLS.**  
Nationally known  
for a century

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**"OATREX"**

*Prepared from the  
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**FINE GROUND.** For weaned  
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invalids.

**MEDIUM GROUND.**  
Makes a grand  
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**KING'S PATENT PRE-COOKED OATMEAL**



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# HEWLETT'S TEETHING JELLY

A NON-COMPETITIVE COUNTER LINE

“TAKES THE TEARS FROM TEETHING TIME”

HEWLETT'S Honey-Sweet TEETHING JELLY is being advertised extensively in the National and Provincial Press and on the London Transport System. This product has been introduced only after careful and extensive research in the laboratories of the House of Hewlett, in the confidence that it is by far the most handy, palatable and effective method of soothing infant's gums during Teething Time, yet devised.

Cost 12/- per doz. plus 4/- Purchase Tax

Retail 1/10 per tube

**C. J. HEWLETT & SON LTD.**

*Manufacturing Chemists*

35-43 CHARLOTTE ROAD • LONDON, E.C.2

and at GLASGOW

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## DAVID and JONATHAN



The shepherd boy and the King's son who made a covenant and became as brothers have remained symbols of undying friendship down the ages.



VITAMINS LTD., UPPER MALL, LONDON, W



The soul of Jonathan was knit with the soul of David—they were history's first and most famous inseparable friends.

"Inseparable friends" are common among nutrients. Researches are constantly disclosing food factors whose souls must, literally, be "knit with each other" to enable each to do its part in building up the human body and maintaining it in health.

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Complevite's formula is based on the body's fundamental need for nutritional completeness. Containing the most important vitamins and minerals, in rational dosage, it is designed to make certain of the presence of *all* the "inseparables"—to make good those factors commonly needed as additions either to the average or the "special" diet.

## COMPLEVITE

a single supplement for multiple deficiencies

Retail cost of 20 days' supply (120 tablets) 5s. Trade discount 33 1/3 %

Make sure your stocks of COMPLEVITE are sufficient to meet the demand.

# Velouté de DIXOR



RETAIL PRICES  
11½ & 19½  
(inc. tax)

The  
**ORIGINAL**  
combined  
**POWDER CREAM**

From your usual wholesaler or direct

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## PICOT

IS THE ONLY  
PERFUMER IN THE  
WORLD WHO MAKES  
PERFUME ONLY

## PICOT

PERFUMES  
LAST  
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## PICOT

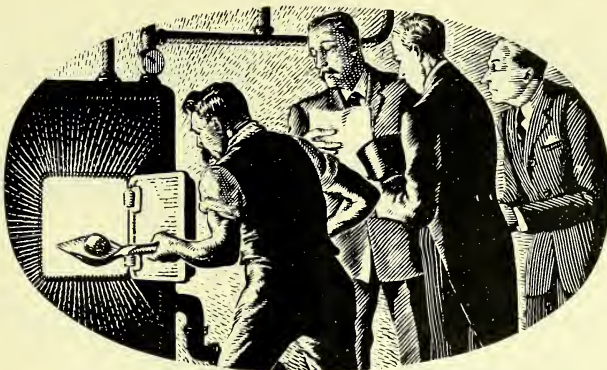
"LE TRAIN BLEU",  
"LE MUGUET FLEURI",  
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SELECTED AGENTS—  
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TRIAL SIZE 2/6  
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## *Relics of a freer age*

It is amusing to recall that when the Dangerous Drugs Act was passed in 1920 some high officials of the Home Office came to see Howards in connection with the Act and were horrified to be shown some magnificent specimens of opium which had been in the Howards Museum for many years. One lump was, in fact, the size of a tennis ball. Having informed Howards that they were liable to heavy penalties, the officials obligingly led a procession to the boilers, into the furnaces of which these valuable relics of a freer age were solemnly cast.

In those days, as now, Howards were ahead in chemical progress and purity of manufacture.

**Safe as**

# HOWARDS

Bromides, Citrates  
Iodides, Iron Salts  
Bismuth Salts  
Sodium Bicarbonate



Lactates, Aspirin  
Salicylates, Ethers  
Quinine Salts  
Tablets-etc. -etc.

HOWARDS & SONS LTD • ILFORD near LONDON



A CRODA



PRODUCT

## APPROVED MATERIALS FOR THE PHARMACIST

Alcoholia Lanae B.P.

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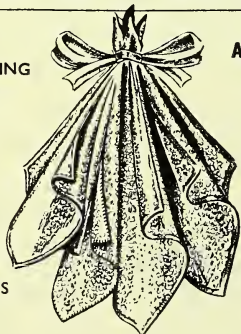
*Write for testing samples and full data*

### CRODA LIMITED

Administrative Offices: **CRODA HOUSE • SNAITH • GOOLE • YORKS**Telephone • **SNAITH 77** (three lines) ALSO AT LONDON • MANCHESTER • BRADFORD

## THE "Nymph" FACE CLOTH

TERRY  
TOWELLING  
12" x 12"



NOW  
AVAILABLE

IN  
FOUR  
COLOURS

Retail  
**1/9**  
each

Sole  
Distributors:—

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33 LAPWING LANE, MANCHESTER, 20

## VINE'S BONUS OFFER!

ALL THE FOLLOWING LINES WITH THE EXCEPTION  
OF BIOCRIN POMADE SHAMPOO ARE SUPPLIED

### 13 TO THE DOZEN

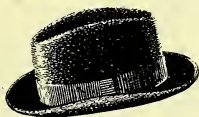
4 DOZEN LOTS OF ANY ONE LINE QUALIFY  
FOR A BONUS OF 6 UNITS INSTEAD OF 4

#### PRICE LIST

	Retail Price	Per Doz.	TAX
<b>KALORAFILL HAIR FOOD</b> (Ordinary or for Oily Scalp)	6/6	27/-	100%
<b>BIOLOGICAL TONIC OIL</b> (Red & Blue)	4/6	18/-	100%
Medium Size	8/6	34/-	100%
Large Size	3/6	21/-	33 1/3%
<b>SCURF LOTION</b> (Emulsified)	2/6	15/-	33 1/3%
<b>YOUNG FOLKS SHAMPOO</b>			
<b>Biocrin POMADE SHAMPOO</b> (Ordinary or Blue) Jars or Tubes			
Medium Size	3/-	18/6	33 1/3%
Large Size	5/-	30/-	33 1/3%

Available from all leading Chemists' Sundriesmen.  
Wholesale enquiries invited—contact your usual sup-  
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**SMALL?**

**TOO**



Knowing that **LORELOX**  
and **TODDILOX** are two of the most  
successful proprietary lines of recent  
years you may be asking yourself why it is that no **MAUREEN**  
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grown too big for our boots—or hats? No! The answer is that every available penny  
of sales revenue is still going back into advertising.  
For 1950 we have set ourselves a more ambitious advertising programme than ever.  
Maintaining an expensive sales force at this stage would mean  
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instead of  
getting on with it.

**LORELOX & Toddilox**

**MAUREEN BAUN LIMITED • BURY • LANCASHIRE**

# ELASTIC ADHESIVE BANDAGES

(Zinc Oxide and Diachylon)

The Ministry of Health have agreed with the following manufacturers to accept tin or carton pack until May 31st, 1950, in execution of N.H.S. prescriptions. Manufacturers and Wholesalers will cease issuing the carton pack March 31st, 1950.

Cuxson Gerrard & Co. Limited. Oldbury. Birmingham.

A de St. Dalmás & Co. Ltd., Leicester.

Herts Pharmaceuticals Ltd., Welwyn Garden City.

Johnson & Johnson (Great Britain) Ltd., Slough.

Leslies, Ltd., London.

Wm. Mather, Ltd., Manchester.

T. J. Smith & Nephew Limited, Hull.

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New Edition of **TEXTBOOK OF PHARMACOGNOSY** by T. C. DENSTON, B.Pharm., Ph.C. F.R.I.C., now available. This textbook provides a complete course in Pharmacognosy for the C. & D. qualifying examination, covering every aspect of the syllabus. An invaluable book for every student. 27/6 postage 9d. from The CHEMIST & DRUGGIST, 28 Essex Street, London, W.C.2

**D.C.L.**  
**VITAMIN B<sub>1</sub>**  
**YEAST**  
**TABLETS**

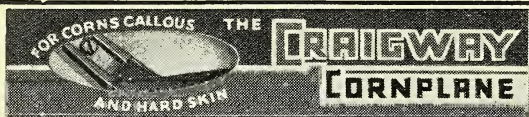
Each ounce contains a natural Vitamin B potency equivalent to that of 25 mgm. Aneurin Hydrochloride, 1'4 mgm. of Riboflavin, and 8'0 mgm. Nicotinic Acid. Each Tablet contains 100 I.U. (approx.) Vitamin B<sub>1</sub>.  
100 TABLETS 3s. 9d.  
50 TABLETS 2s. 3d.  
THE DISTILLERS CO., LTD.  
EDINBURGH.

## WE WANT

Sole Manufacturers: JEFFREYS,  
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## MILLAMALT

BECAUSE OF THE BUTTERSCOTCH FLAVOUR



Individually packed  
in cartons

### DISPLAY CARD OF 18

RETAIL **2/3** PRICE

Sole Distributors:

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The remarkable success of the "Craigway" Corn Plane is due to the new principle involved. The angle of the blade is the secret. This new and profitable line only needs showing to SELL!

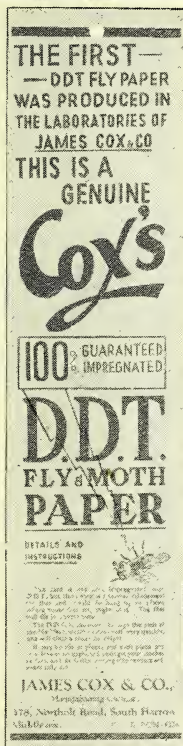
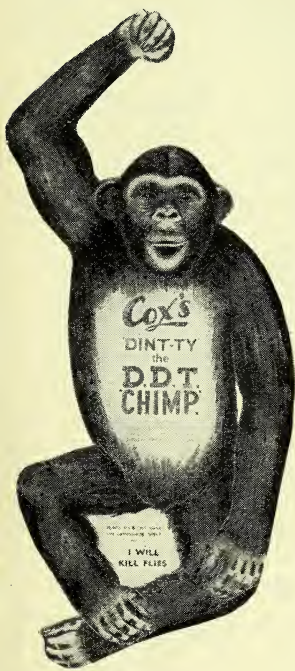
15/4 per doz. plus  
Purchase Tax  
Usual discount to  
Wholesalers



# COX'S D.D.T. CARDS

ARTISTIC . . . . EFFECTIVE . . . . THE BEST

## THEY DO KILL FLIES



**COX'S D.D.T. CHIMP**

RETAIL **3<sup>D</sup>** EACH

WHOLESALE 24/- PER GROSS

**COX'S ORIGINAL FLYPAPER**

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**COX'S D.D.T. PARROT**

RETAIL **4<sup>D</sup>** EACH

WHOLESALE 32/- PER GROSS

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**ALL ACCOUNTS LESS 2½% — 30 DAYS**

**OVER 12,000 PHARMACISTS STOCK COX'S D.D.T. CARDS**

Because they are guaranteed 100% impregnated and have a TWO YEAR-LIFE . . . Not merely surface coated

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## James Cox & Co.

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Telephone : BYRon 4326

**DELAVELLE** *Blue Orchid*  
**TONIC** **BRILLANTINE**



**Makes beauty go to your head**

Brillantine with a **tonic!**  
 Massage thoroughly into scalp and see your hair sparkle!

2/3 and 3/9, from leading chemists, hairdressers and stores. If any difficulty write Delavelle Perfumeries, London, N.I. giving name of retailer.

## IT'S NEW!

Not just another brillantine. A new hair beautifier with an added tonic, and perfumed with Delavelle's exclusive "Blue Orchid" fragrance.

## IT'S NEWS!

Advertising is swinging into its stride in National and Provincial papers, and in a wide range of Women's Magazines. "Blue Orchid" Tonic Brillantine is going to town and country in a big way.

## AND A *Blue Orchid* WINDOW DISPLAY BONUS OFFER

which entitles you to a free supply of this Brillantine. Write for particulars now.

## DELAVELLE

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Telegrams: Parfumerie, London

# RELIANCE

has promoted the

# SPONGE

to your counter

In packing the sponge in a manner fitting a high grade article, Cresswells have put 'Reliance' sponges in a class right by themselves—and given them a right to a place on your counter, just where they please the eye and tempt the purse of your customers!

**B.I.F. VISIT OUR STAND No. D.55**  
**OLYMPIA (Ground Floor) May 8th-19th**

**CRESSWELL BROS. SPONGES**  
 (International Sponge Importers Ltd.)

**International House,**  
**BUCK STREET,**  
**CAMDEN TOWN, N.W.1**  
 GULliver 5452-3

Grams: Sponge, Norwest, London



*Dental Sticks  
 are specially  
 made for  
 massaging the  
 gums - They  
 are not Tooth-  
 picks*

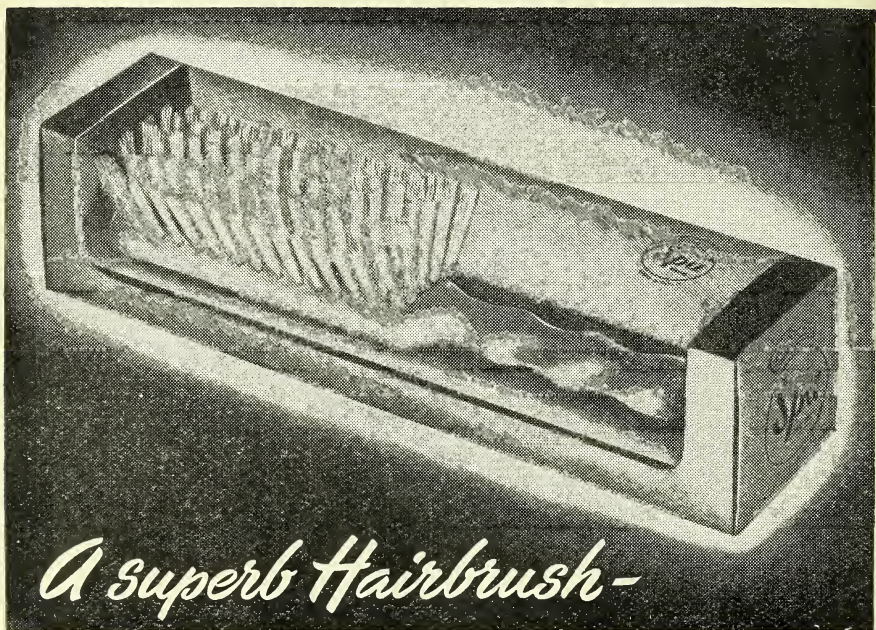
Dental Sticks are manufactured from various types of specially selected soft and hard woods and also from whalebone and are intended entirely for massaging the gums between the teeth.

**BRITISH DENTAL STICKS LIMITED**  
 NEWCASTLE-ON-TYNE 4









*A superb Hairbrush -  
and selling faster in 1950!  
at 6/11d*

**A SELF SELLER NOT  
A SHELF DWELLER**

*7" Combs to match available*



MADE BY

**SPA BRUSHES LTD.**

FREEMAN WORKS • CHESHAM • BUCKS

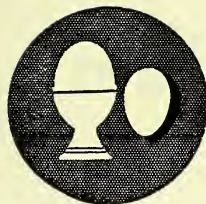
a **new type**

## anti-histamine



### ADVANTAGES

*Low toxicity: prolonged action: relative freedom from side-effects.*



### DOSAGE

*From 50-100 mgm. daily (1 to 2 sugar-coated compressed products).*



### PACKING AND PRICES

*Bottles of 25 (6/-) and 500 (102/-). Further information on request.*

# 'Histantin'

BRAND

dl-1-(p-CHLOROBENZHYDRYL)-4-METHYLPYPERAZINE MONOHYDROCHLORIDE



**BURROUGHS WELLCOME & CO.,** 183-193, EUSTON ROAD, LONDON  
(The Wellcome Foundation Ltd.)

## AIDS TO MODERN TREATMENT

### AMECHOL

An effective parasympathetic stimulant, of especial value in vasospastic conditions of the extremities; Raynaud's disease; scleroderma; varicose, indolent and gangrenous ulcers, and auricular paroxysmal tachycardia.

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The original colourless Coal Tar Cream with all the therapeutic advantages of crude coal tar. An invaluable anti-pruritic in all forms of eczema, pruritus, psoriasis, occupational dermatitis, etc.

### DICODID

For use in the symptomatic treatment of cough. A selective antitussive with a cough-depressant action more prompt and more prolonged than that of codeine. Well tolerated and non-constipating.

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A definite chemical compound embodying the anti-arthritis and anti-rheumatic properties of Aspirin combined with the stimulating and corrective effect of Iodine. Prompt in action and well tolerated.

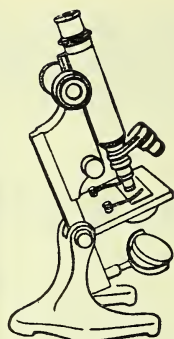
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A new synthetic antispasmodic for the relief of smooth muscle spasm. Indicated in all cases of spasm of the gastro-intestinal and genito-urinary tracts. Prompt relief and well tolerated.

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A new combination in the treatment of obesity. Based on reasoned and scientific principles, it is designed to assist both physically and mentally in attaining a low-calorie diet without undue effort.

**SAVORY & MOORE**  
LAWRENCE RD. TOTTENHAM N.15



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# In the choice of an Analgesic 'CODALGIN'

TRADE MARK

*has a Perfectly Balanced Formula  
and the BAYER quality behind it*

**W**HY is 'Codalgin' better? Its carefully balanced formula makes pain-relief quick, safe and prolonged. There are no by-effects. The packing is hygienic and attractive, and the four-tablet block is useful for pocket and handbag.

*These trade terms are worth noting:—*

**Discount of 33½%**

**Bonus of 14 to the dozen on orders of 6 dozen cartons of 20 in exchange for display.**

*Purchasing under these terms shows a profit of 9d. on each packet sold.*



'Codalgin' is retailed at 20 @ 1/9d.,  
bottles of 100 @ 7/6d. P. Tax extra.

**BAYER PRODUCTS LIMITED**  
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# Liquid Paraffin White Oils and Petroleum Jellies

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**PEARSON VACUUM**  
*Liquid*  
**FILLING MACHINE**

- RAPID
- ACCURATE
- NON-DRIP
- COMPACT



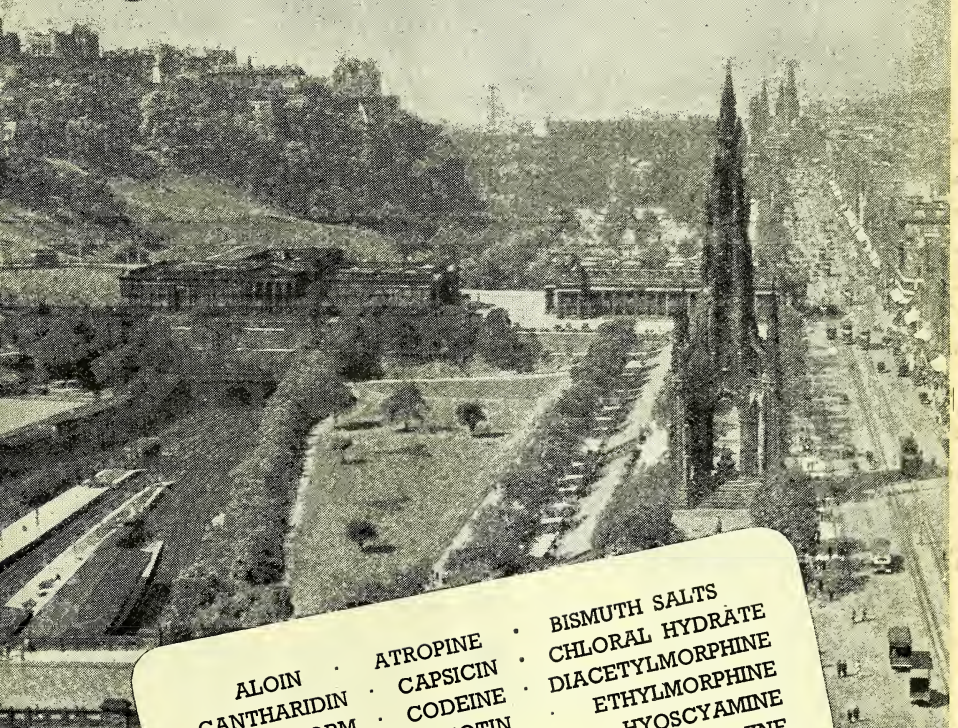
The "PEARSON" Liquid Filling Machine can be operated by unskilled labour. It is easily adjusted for different sizes of bottles, etc., almost any of which can be rapidly filled with fluid without spill or drip.

The machine can be quickly cleaned and sterilized.

**S.W. PEARSON LTD.**  
PECKLETON COMMON • N.R. EARL SHILTON • LEICESTER  
TEL. DESFORD 381/2 GRAMS • RENCOL



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ALLOIN	ATROPINE	BISMUTH SALTS
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EPHEDRINE	ERGOTIN	ETHYLMORPHINE
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MORPHINE	PAPAVERINE	PHYSOSTIGMINE
PILOCARPINE	SANTONIN	STRYCHNINE



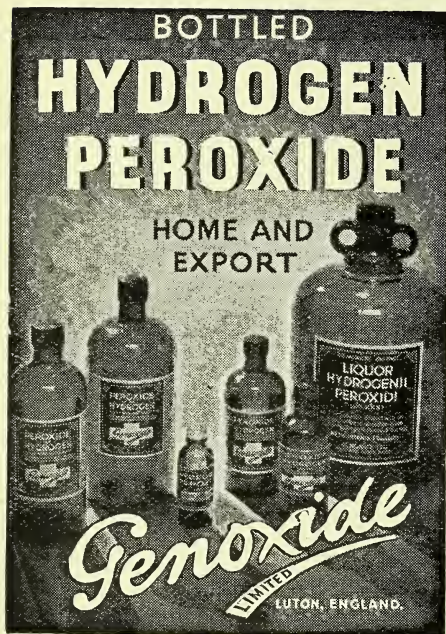
*Manufactured in Edinburgh by*  
**T.&H. SMITH LTD**

*at Blandfield Chemical Works*



**BOTTLED**  
**HYDROGEN**  
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HOME AND  
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*Genoxide*  
 LIMITED  
 LUTON, ENGLAND.

FOR DESTROYING RATS and MICE  
**HALLER'S EXTRACT OF SQUILL**  
 is always in demand as it is a standard  
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For the destruction of  
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**"DANZO BEETLE POWDER"**

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Parasiticide and Insecticide in liquid form  
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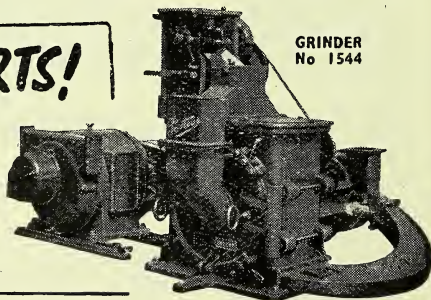
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The best way to ensure satisfaction in grinding is to  
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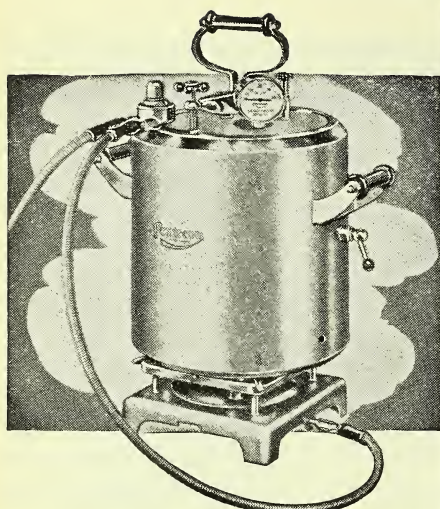
*Established 1890*

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## the advantages of the **PENTECON** Autoclave

### THERMOSTATIC CONTROL

The thermostat, independent of the pressure factor is the most accurate means of obtaining a consistent temperature. Designed for use over a gas ring or portable burner, it is constantly in control, after initial adjustment to suit the requirements.

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Alexandrian & Tinnevely  
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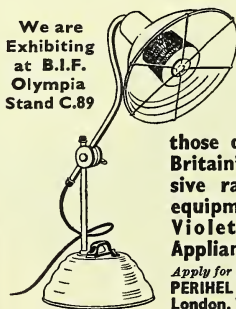
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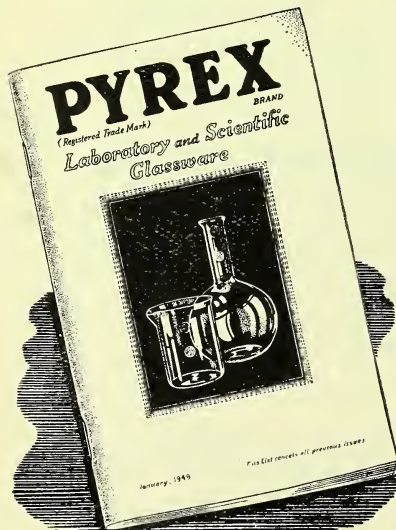
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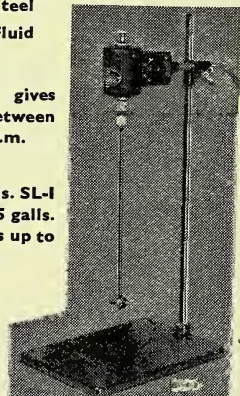
All Stainless Steel

Contact with Fluid

Built-in Control gives  
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Also larger models. SL-I  
for vessels up to 5 galls.  
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**NOW IN  
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GRAMS: "SYNTHETICS," CHESTER

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For Manufacturing and other technical  
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TRADE DISCOUNT 33 1/3%

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MEDICINAL & OTHER  
**TABLETS**

any shape or size up to 1 1/2"  
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Private Formulas compounded by  
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OVER 40 YEARS' PRACTICAL EXPERIENCE.

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The IMPROVED

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**SURGICAL  
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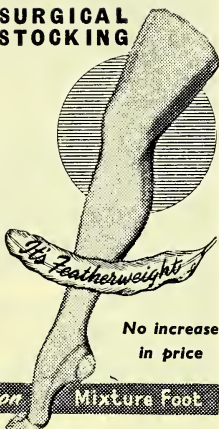
with **NYLON  
Mixture Foot**

Lastonet, the renowned made-to-measure Surgical Stocking is now available with a Nylon Mixture Foot, giving greatly increased wear.

Measurement forms and full details from the makers:—

**LASTONET PRODUCTS LTD.**

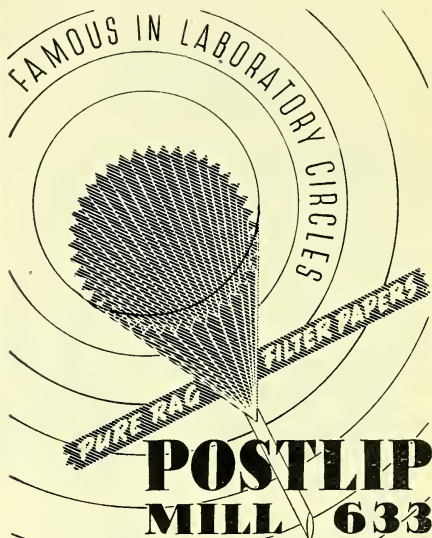
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Cornwall



No increase  
in price

Now supplied with *Nylon* Mixture Foot

*Lastonet for inconspicuous support*



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**PARA AMINO SALICYLIC ACID**

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**BISMUTH SALTS**

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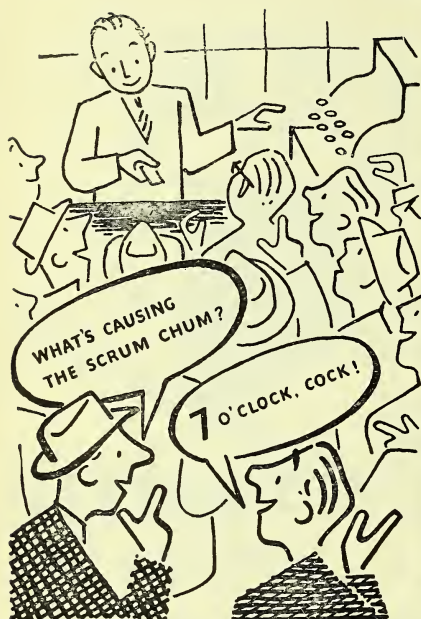
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**M.W. HARDY & CO. LTD**

6 BILLITER STREET, LONDON, E.C.3

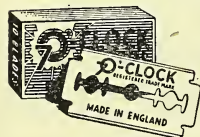
TELEPHONE: ROYAL 8343 (10 LINES)

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You get so many people asking for 7 O'CLOCK these days that your stock turns over before you can say "triple-ground". It's the consistent performance of 7 O'CLOCK blades that brings people back for them time after time. They know that every blade in every packet will give as good a shave as the one before—and that's saying something. 7 O'CLOCK advertising puts over this story for you in its own ever-popular way.

## 7 o'clock BLADES



**1/8d FOR TEN**

10d for 5

(Prices include tax)

**STILL at PRE-WAR PRICE!**

Trade enquiries to your wholesaler or to Gillette Industries Ltd., Gillette Corner, Great West Road, Isleworth, Middx.

**SUPREME  
BRANNAN  
ACCURACY**

**THERMOMETERS**  
Clinical. Household. Industrial. etc.

**MADE IN ENGLAND  
BY  
S. BRANNAN &  
SONS LTD.**  
London & Cumberland

**'ACRIBES'**  
Regd. Trade Mark

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LYALL WILLIS  
& CO. LTD.**  
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LONDON, W.1

## TAX PAID STOCKS

**Shaving Brushes**

**TOOTH BRUSHES**

*Samples sent on approval*

*Wholesale Enquiries Welcomed*

**WE  
CARRY  
COMPREHENSIVE  
STOCKS  
OF  
ALL  
CHEMISTS  
SUNDRIES  
AND SIDELINES**

*Send for our Post Paid Free C & D Price List*

**L. FRANKENBERG LTD.**  
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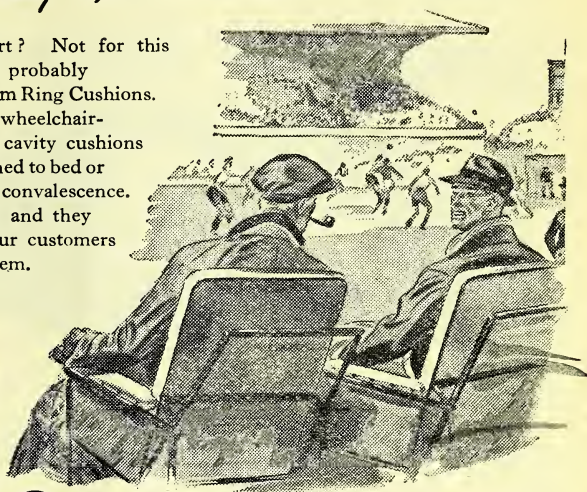


*"They'll have to play extra time!"*

Another thirty minutes of discomfort? Not for this invalid. Some wise friend—a chemist, probably—told him about Dunlopillo Latex Foam Ring Cushions. Since buying one, he's never known wheelchair-cramp. The extra comfort of these cavity cushions makes life more pleasant for those confined to bed or chair, eases the burden of sickness and convalescence. Dunlopillo cushions *cannot puncture* and they are light and conveniently sized. Your customers will find a hundred and one uses for them.



Type E. 10504S  
16" diameter, 5" hole. Retail Price 10/-.



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**Founders of the Latex Foam Industry**

5CD/D8a



*High Quality  
Hair Pins  
— in world-wide  
demand*

Sales steadily increase as more women discover the excellence of these three famous brands.

**THE WHITECROFT PIN MFG. CO. LTD.**

Whitecroft, Gloucestershire. Tel: Whitecroft 308-9



KEEPS HOTTER — KEEPS COOLER IN A

**VACCO**now 5/3  
RETAIL

The Vacuum Flask of *quality finish*. With a tested refill of *extra high thermal efficiency*. Spare Refills, Cups and Corks are available.

MADE IN ENGLAND

VACCO SALES LTD. 55 PALL MALL, LONDON, S.W.1



Model SC  
1 Pint or  
Half Litre

**WELL KNOWN**  
— *and liked!*

THE OUTSTANDING  
PINE DISINFECTANT  
and GERMICIDE

To maintain quality, supplies were restricted during the war, today Drummer Pine rapidly regains its leading position in consequence of the goodwill of the trade and public. People have confidence in the powerful disinfectant germicidal properties of DRUMMER PINE and they love the fragrance that "spells clean."



**Large posters and  
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commenced June**

WILLIAM EDGE &amp; SONS LTD

BOLTON

Another product  
bearing the  
famous name  
**Southalls...**

*Paper  
Handkerchiefs*

YOU KNOW that the Southalls name stands for quality and is a recommendation to customers. And here is a *new* line in this famous range... Southalls Paper Handkerchiefs.

Nine inches square, with embossed fancy border, and made of 3-ply pure cellulose wadding, Southalls Paper Handkerchiefs sell to the public in attractive packets of 20 for 6d. They come to you in parcels of 3-dozen packets. Order through your Wholesaler. Trade price 49 d. per gross packets.

SOUTHALLS (Birmingham) LTD



# BIOLOGICAL PREPARATIONS

THE QUALITY OF ALL MBL PRODUCTS IS ABSOLUTELY IDENTICAL WITH THAT OF PRE-WAR PREPARATION

because of our heavy purchases immediately before war broke out. Our stocks are still considerable and the high MBL standard will be fully maintained.

THERE IS NO SHORTAGE OF ANY OF OUR PREPARATIONS

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						Per unit			Per dozen		
					(inclusive of Tax)	Net +		Purchase Tax	Net +		Purchase Tax
<b>ANTIPEOL</b>											
OINTMENT	4 oz. tube	...	...	...	7/5	4/2½	+	1/5	50/5	+	16/10
	40 gr. "	...	...	...	3/8½	2/1½	+	8½	25/3	+	8/5
	20 gr. "	...	...	...	2/1	1/2	+	5	14/-	+	4/8
LIQUID	40 c.c. bottle	...	...	...	3/8½	2/1½	+	8½	25/3	+	8/5
<b>OPHTHALMO-ANTIPEOL</b>											
20 gr. Nozzled Tube					3/8½	2/1½	+	8½	25/3	+	8/5
8 gr. " "					1/9	1/-	+	4	11/11	+	4/-
<b>RHINO-ANTIPEOL</b>											
20 gr. Nozzled Tube					3/1	1/9	+	7	21/-	+	7/-
8 gr. " "					1/9	1/-	+	4	11/11	+	4/-
<b>ENTEROFAGOS</b>											
Box of 50 ampoules					19/-	13/3½		None	159/7		None
" 10 "					4/3	3/-		None	35/8		None
" 5 "					2/6	1/9		None	21/-		None
<b>DETENSYL</b>											
Tin of 500 tablets					43/-	24/-	+	8/-	288/-	+	96/-
Tube of 50 "					4/11	2/8½	+	11	32/4	+	10/10
<b>ST. JAMES' BALM</b>											
Tin of approx. 2½ oz.					3/1½	1/11	+	7½	22/6	+	7/6
" " 1 oz.					1/7	11	+	4	11/3	+	3/9

Carriage paid on all orders of 1 dozen or £1 and over.

Terms : NETT, Monthly Account.

MEDICO-BIOLOGICAL LABORATORIES LTD., LONDON, S.E.25



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## NEW LIFE FOR YOUR BUSINESS



**STOCK PROMOL JUNIOR MOTH RINGS** and cash in on the Moth menace. By incorporating Napthalene with Paradichlorbenzenium and DDT, they KILL as well as repel. The first two ingredients, powerful repellants, gradually evaporate, leaving the deadly DDT as a fine powder that KILLS BY CONTACT.

Displayed in their attractive red, white and blue carton, at 8 rings for 4d. They are **BETTER-THAN-EVER** SELLERS. *Send your enquiries today:*

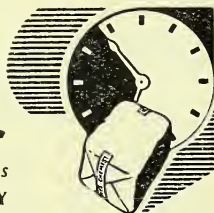
# PROMOL

*Junior*  
**MOTH RINGS**  
**PROMEDICO PRODUCTS LTD.**  
22 TURLE ROAD, LONDON, N.4.

P.P.T.A.

## SAVE TIME...

Seal your packages  
this QUICK, EASY WAY



An inch or two of self-adhesive *Transotape*, a flick of the finger... and your package is sealed cleanly, smartly and securely. *Transotape* mends, strengthens and protects. It's pillar-proof. You can have it *printed*—and what a good advertisement! You can write on it. In colours to identify poisons and special drugs. Economical... you get 2,592 inches on a roll.

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Ask about *Transotape Mini-rolls* for selling to your customers. Every home a potential user. In lovely colours, 180 inches to the roll.



puts EXTRA profit  
on your turnover  
Samples and prices gladly

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PW 17/49

Britain's Topographical Specialists since 1909

Steadily drifting South...

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THE POWDER WITH A REPUTATION

**For over 30 years  
Scotland's leading  
Proprietary Medicine**

for the speedy relief of  
Headaches, Neuralgia, Neuritis  
and all Nerve Pains

Manufactured by  
**ASKIT LTD MANUFACTURING CHEMISTS**  
GLASGOW N

and stocked by  
**ALL LEADING WHOLESALE HOUSES**

# *You get an* **ACTIVE RESPONSE** *from an* **'ASPRO'** **DISPLAY**



'ASPRO' displays are powerful pullers because they act as vivid reminders to thousands of 'ASPRO' users, and 'ASPRO' is better known to the public, and means more to them, than any other line of its kind. 'ASPRO' displays give you a double advantage—they increase your profit margin by qualifying you for bonus and at the same time are, in themselves, making steady sales for you.

## **CONSTANT DEMAND SHIFTS 'ASPRO' QUICKLY —** *Keep good marginal stocks on hand* **'ASPRO' BAGS—PRICES REDUCED**

We are passing on to you the full benefit of the lower production costs of paper bags :

**GREASEPROOF** (formerly 9/- per 1,000) **NOW 6/- per 1,000.**

**2-OZ. WHITE** (formerly 6/6 per 1,000) **NOW 5/- per 1,000.**

We suggest you take advantage of this opportunity by ordering now.

## **AN ELECTRIC CLOCK AT COST PRICE — £3**

We are now able to supply you with a precision-made Smith's "Sectric" Clock (as illustrated) for use in your shop or window—size 13½ in. by 10½ in. It is a quality job, elegant and modern in appearance and an excellent timekeeper. We have had a host of approving comments from the 800 chemists who have already installed these clocks. Take advantage of this opportunity now. **NOTE:** These clocks are not suitable for use on D.C. mains but in such cases we can supply an 8-day Smith's lever movement clock at £3 15s. 0d.



**PATA**

Made in England by  
**ASPRO LIMITED, Slough, Bucks**

**'ASPRO'**  
REG. TRADE MARK



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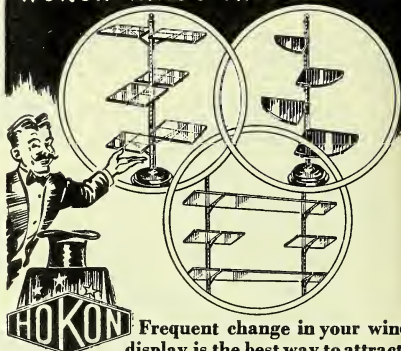
*Petrushkin*

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M. PETRUSHKIN LIMITED. Established 1894  
Cardboard Box Manufacturers and Printers  
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Frequent change in your window display is the best way to attract the customers' eye. With Hokon Display equipment you can "ring the changes" as often as you like with the minimum effort and the maximum effect.

You can change the height, layout and the look of your display in a matter of minutes, and your goods are displayed to the best possible advantage.

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16 THE ORACLE, MINSTER STREET, READING



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IMPERIAL WORKS, ST. GEORGE, BRISTOL, 5  
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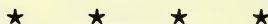
# Local Chemist gets a Winter Sales Surprise

"I've been in the pharmacy business a good many years," says this suburban chemist, "and I must admit I'd always looked on Ibccl as a summer seller.

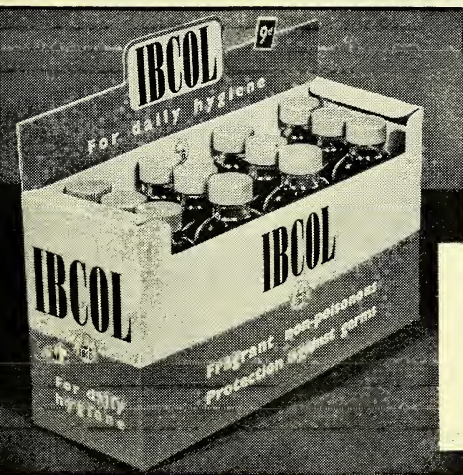
But now I find that Ibccl is selling *12 months in the year!* I've been well up on Ibccl sales during the summer, and I get high sales during the winter too. More and more housewives are realising that health protection is an all-year-round affair, and Ibccl advertising, educating people into the



regular use of Ibccl, is building up an increasing, regular sales volume. Believe me, it's well worth keeping a display container on your counter and in your window."



Ibccl sales increased by over 250% during the past year! Thousands of chemists and druggists are making easy, regular, all-year-round sales cashing in on the powerful nation-wide Ibccl advertising by displaying Ibccl prominently. And when the new biggest-ever Ibccl advertising campaign is launched in spring, the demand for Ibccl will be greater still. Don't miss your share. Give Ibccl priority display in your shop.



**HERE IT IS!** Show this handy, attractive 1-dozen display carton on your counter, in your window, all the time — 52 weeks in the year. For the little space it takes up it will yield you handsome, regular profit. If you have difficulty in obtaining supplies, write to Ibbetson, Barking, Essex.

**ZEAL****Clinicals****The Choice  
of Experts****BRITISH  
MADE****NO HIGHER  
IN PRICE THAN  
NONDESCRIPT  
MAKES****Also Household, Bath  
and Works Thermometers,  
the best of their kind****G. H. ZEAL LTD.****LOMBARD RD., MORDEN RD.,  
LONDON, S.W.19****Phone: Liberty 2283-4-5****AN ALL COTTON WOOL PRODUCT OF REPUTE****Consolux**  
*Patent No. 410702*  
(Registered)**SUPERFINE QUALITY  
ALL WOOL SANITARY TOWELS****LOOPED ENDS  
NON-ABSORBENT BACK  
WHOLESALE ONLY****ROBERT BAILEY & SON, LTD.****SURGICAL DRESSING MANUFACTURERS****DYSART STREET, GREAT MOOR, STOCKPORT****Phone: GREAT MOOR 3056****Grams: "UNDISPUTED," STOCKPORT****It's a family  
affair!****HILLCREST TOILET ROLLS** *are made of the purest Toilet  
Tissue, and each sheet is medicated with Pine germicide***6 Star SELLING POINTS!**

- ★ ATTRACTIVELY Banded IN THREE COLOURS ON GLAZED PAPER in 6 oz., 7 oz., and 8 oz. weights
- ★ SUPER QUALITY manufactured from purest toilet tissue
- ★ KEEN PRICES FOR QUANTITIES to established Wholesale-ers
- ★ ALL SHEETS MEDICATED WITH PINE GERMICIDE
- ★ ADVERTISING—Your customers will see this advertisement in the "News of the World," "Daily Mirror," "Daily Express," "News Chronicle," "Daily Herald," "Daily Mail," and all the leading Provincial papers; also on Odeon and A.B.C. Cinema Screens.
- ★ CUSTOMERS' OWN DESIGNED GLAZED BANDS PRINTED (NO EXTRA CHARGE)

**Sole Manufacturers: LIPTONS PAPER MILLS LTD.,  
Head Office: UNITY WORKS, HEDDON ST., LONDON, W.1****TRADE ENQUIRIES INVITED****Estd. 1898**



# The Chekaleke

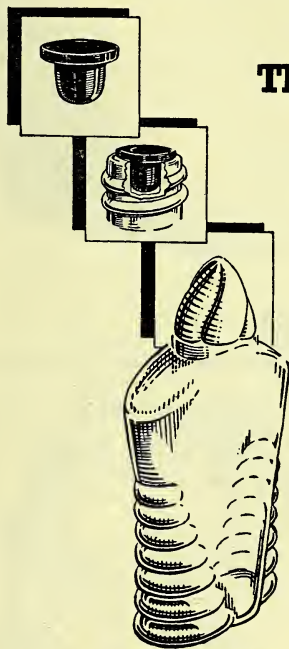
TRADE MARK  
PAT No. 439062

**PLUG**

**The perfect seal**

**no leakage**

**no evaporation**



Regd. No. 860380

CHEKALEKE PLUGS ARE  
MADE FOR ALL STANDARD  
SIZE OPENINGS AND A  
FULL RANGE OF SAMPLES  
WILL GLADLY BE SENT  
ON REQUEST

*Produced by the makers of the finest glass containers*

**THE INTERNATIONAL BOTTLE CO LTD**

PHONE:  
MAYFAIR 6992  
(5 LINES)

140 PARK LANE, LONDON, W.1

GRAMS:  
AUTREFOIS, AUDLEY  
LONDON



If it's well **TAPED...**

It's taped with self adhesive INDUSTRIA SFEEDFIX Double-Bonded Cellulose in Transparent, or Coloured, Plain or Printed on single or double-ply tape.

*Cloth · Glass-fibre · Paper*  
*Masking Tapes · Electrical Tapes*

If it's self-adhesive it's—

## INDUSTRIAL TAPES LIMITED

92-94 Newman Street, London, W.1. Museum 4215-6-7



"Nothing like INDUSTRIA sealing for Hot Climates"

# Tintex

THE WORLD'S  
LARGEST-SELLING

**HOME DYE**

CHEMISTS AGENTS:—  
Thos. Christy & Co., Ltd.  
Farnham, Surrey

**OTEG** EGG  
PRESERVATIVE  
"DRY-SEALING"  
PROCESS



**MAKE CERTAIN YOU HAVE THE STOCKS  
TO MEET THE DEMAND FOR THIS  
UNIQUE EGG PRESERVATIVE**

One quick dip and the eggs are perfectly preserved for twelve months or more, stored in any cardboard or wooden box or basket.

**OTEG IS SUPPLIED IN AIR-TIGHT TINS READY FOR USE**  
Available in three sizes:

<b>Bijou Size</b>	<b>Sufficient for 250 eggs</b>
<b>Small Household Size</b>	<b>Sufficient for 500 eggs</b>
<b>Large Household Size</b>	<b>Sufficient for 1,000 eggs</b>

TRADE AND WHOLESALE TERMS OF APPLICATION TO THE MANUFACTURERS:

**SOZOL (1924) LTD**

2 Copthall Buildings, LONDON, E.C.2

Grams: Yuzozol, Stock, London

Phone: MONarch 6830

# **SCRAM**

## **THE CLEAN METHOD**

NO BAIT • NO TRAPS • NO BODIES

**THE BEST REMEDY  
AGAINST MICE**

OVER 1,000,000  
PACKETS SOLD A YEAR

1 DOZEN DISPLAY BOX

**8/9**

3 DOZEN DISPLAY BOX

**25/6**



Retail **1/-** per pkt.

NATIONALLY  
ADVERTISED

*Display the*

**PACKS THAT SELL, SELL, SELL!**

Order from your wholesaler or direct

SCRAM PRODUCTS LTD., Dartmouth Park Hill, London, N.W.5

# Buying Sunglasses?

## DEVALUATION-means-REVALUATION

... Customers value your discretion so ...

before stocking up, please ask your wholesaler to show you our 1950 range — new models, keen prices. Over 15 styles from which to choose, retailing from 9d. with our popular L.2 model "Sunrex" with *glass lens* at 1/9. individually boxed !!

**Buy BRITISH this Season**



## SUNRA GLASS

AT LAST!

A moderately priced  
sunglass with the  
"expensive" look

RETAILS AT  
**3s. 6d.**  
(in two colour box)

Scientifically styled for men and women. Comfortable  
saddle bridge in two popular fittings.

Available in attractive colours: opaque, transparent and  
pearl, from your usual wholesaler. There are twelve  
other models of sunspecs from which to choose which  
retail from 1s. 0d.



## OPTICAL PRODUCTS LTD.

370-372 STATION ROAD, FOREST GATE.  
LONDON, E.7. — ENGLAND

Telephones: MARland 1766 & 1550

LAST SEASONS' SUNGLASS SENSATION  
VALUE = SALES! SALES = PROFITS!



FOR EVERY MONTH OF THE YEAR

# HERBAL "ZEMS" LICORICE TABLETS

**GUARANTEED**  
TO GIVE INSTANT RELIEF FOR  
COUGHS, COLDS, BRONCHITIS, ASTHMA.

Prepared by **ZEMS LTD**  
718-724 Seven Sisters Rd  
Tottenham, N.15.

COUGHS, COLDS, BRONCHITIS, ASTHMA.

---

Prepared by **ZEMS LTD**  
18-724 Seven Sisters Rd  
Stevenage, HES.

---

**ZEMS**  
REGISTERED (BRAND)  
Controlled Substance

HERBAL  
LICORICE  
TABLETS

Controlled Price  
1/4 1/2

### Formula

**THE BEST MEDICATED TABLETS FOR  
COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.**

**Supplies may be obtained**



from C.F. Wholesale Houses

**ZEMS LTD**

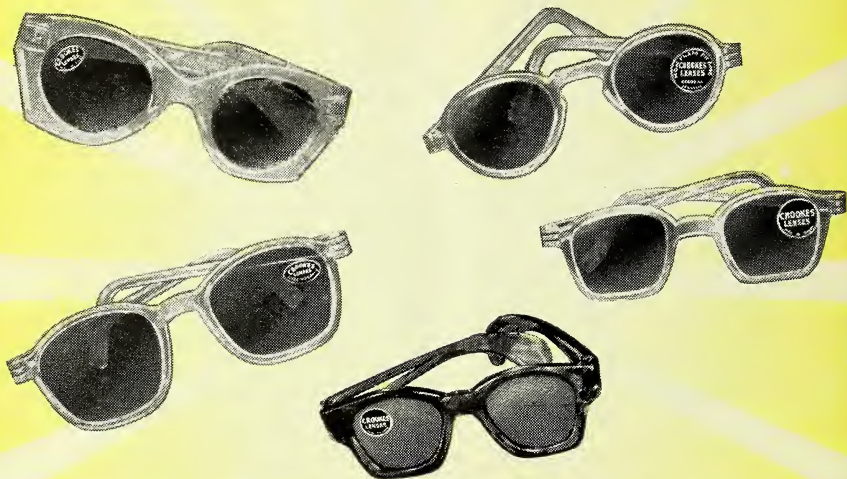
**718-724 Seven Sisters Road, London, N.15**

**Telephone: STAMFORD HILL 6658-9**

*Popular & Fast Selling*

# SUNGLASSES

*75 styles for 1950!*  
*Retailing from 8<sup>d</sup> to 2gns.*



The new 1950 range of Bartlett Sunglasses consists of popular and fast selling modern styles that are priced right to bring you quick and profitable results—truly it is the most complete assortment yet offered to the trade! Send for illustrated leaflet.

Before buying your Sunglasses for 1950 be sure to consider carefully this outstanding Bartlett range. Order from your wholesaler.

*Wholesale enquiries to*

**ALFRED FRANKS & BARTLETT CO., LTD.**

**AUDREY HOUSE, ELY PLACE, LONDON, E.C.1.**



# METAL CLOSURES



Submit coloured sketches for your decorated closures

Design and make all the necessary tools and gauges

Laboratories will recommend the best liner for

product, we operate modern lithographic

g shops and when the closures are finally

produced they are individually inspected.

"The complete co-operation and liaison between our Bottle and Cap Works ensure the perfection of the container and closure."



**U G B**  
**BOTTLES**  
**AND**  
**CLOSURES**  
*The Perfect Pair*

**UNITED GLASS BOTTLE MANUFACTURERS LTD.**

**8 LEICESTER STREET, W.C.2**

Tel: GERRARD 8611 (15 Lines)

Grams: UNGLABOMAN, LESQUARE, LONDON



— whichever way you look at it — it's  
**NATIONAL**

for White Flint Glass Containers of Quality  
 for delivery from stock, in convenient easily-  
 handled cartons

**DISPENSING BOTTLES**

1-oz. to 20 oz. Plain—  
 Cork Mouth or Screw.  
 2-oz. to 16 oz.—Plain or  
 Graduated.

**RIBBED OYALS**

Cork Mouth or Screw.

**VIALS**

$\frac{1}{2}$ -oz. 1-oz.  $1\frac{1}{2}$ -oz. 2-oz.  
 3-oz. Medium or Tall.

**TABLET BOTTLES**

Nos. 1 to  $7\frac{1}{2}$  sizes.

**ROUND SCREW JARS**

$\frac{1}{2}$ -oz. 1-oz. 2-oz. 4-oz.  
 $2\frac{1}{2}$ -oz. Shoulderless  
 Screw Jar.

**SCREW CAPS**

White Enamelled Tin-  
 plate. Aluminium and  
 Black Bakelite.

**National Glass Works (York) Ltd.**

Fishergate  
 YORK

Tel: YORK 3021

105 Hatton Garden  
 LONDON, E.C.1

Tel: HOLborn 2146

WHOLESALE ONLY



I'VE GOT A TISSUE... I'VE GOT A TISSUE...

You're on

Velvet



*Here's a pack  
that'll make a packet  
for EVERYONE!*

**... BOLD - ATTRACTIVE - COLOURFUL**

The pink candy-striped VELVET pack is designed to speed turnover. It displays well and possesses an irresistible sales-appeal.

**... QUALITY CONTENTS**

The pedigree product of a business whose business it is to KNOW paper. VELVET TISSUES are super-absorbent, strong, yet with the softness of long-treasured linen.

**... AND BIGGER VALUE**

This final sales-clinching argument, means repeat business and NEW business — size for size, price for price, quality for quality.

**VELVET TISSUES ARE TODAY'S FINEST VALUE!**

*The*  
**1/3 BOX**

contains 100 (50 x 2 ply)  
top quality tissues

**FULL NATIONAL  
ADVERTISING  
SUPPORT**

**ORDER NOW**

from your usual wholesaler  
and mark it "URGENT" for  
immediate delivery. And  
remember, Displays pay  
Dividends.



*It's Just*  
**STERGENE**

... There is no other way of describing this washer and cleanser. It cannot be compared with anything, because there's nothing like it.

**LADIES**

*We are up against it!*

We want very much to tell you about "Stergene" yet we do not. That's the difficulty. The new washer and cleanser is so incredulous, because it reaches and cleanses. It is the most consistent what bottle.

**Stergene**  
makes *Business*  
of **Cleansing**

APR 12 1950  
TRUSTEES BANK LIMITED  
Pay \_\_\_\_\_  
\$ 60.10.6

Stergene advertising has always been restrained and reasonable—and has been none the worse for that. Exaggerated claims are never made for Stergene because they are not necessary. Housewives learn to trust Stergene, and it is that confidence which makes Stergene a regular item on so many shopping lists. Truly Stergene makes business of cleansing.

**Stergene**  
SCIENCE IN CLEANSING





**Ortho-Gynol  
Sets  
Ortho-Creme  
Sets**

*An important addition to the outstanding range of*  
★ **Ortho Gynaecics**

The universally prescribed contraceptives—*Ortho-Gynol vaginal jelly* and *Ortho-Creme vaginal cream*—are now available in complete sets with the new *Ortho Vaginal Diaphragm* and *Diaphragm Introducer*. *Ortho-Gynol* and *Ortho-Creme* are *always* in demand—and the market is constantly expanding. You will be wise to feature these handsomely packaged Sets in your display of Ortho Gynaecic specialities.

★ Consistently and ethically promoted to the Medical Profession.



*When ordering from your wholesaler specify ORTHO-GYNOL or ORTHO-CREME Sets (size range 55-95 mm)*

**Ortho**  **Pharmaceutical Limited**

HIGH WYCOMBE · BUCKINGHAMSHIRE

*Makers of Gynaecic Pharmaceuticals*

# *Instant success!*

# **BAND-AID**

TRADE MARK

## **WATERPROOF**

### **ADHESIVE DRESSINGS**

The public has been quick to recognize the advantages of BAND-AID WATERPROOF Adhesive Dressings and has given them a hearty welcome! BAND-AID WATERPROOF Dressings are the only waterproof dressings that are "double-bonded". This means that the adhesive remains firmly attached to its backing while the dressing peels cleanly from the skin. Explain this advantage to your customers and remind them to keep BAND-AID Waterproof Dressings handy in the house.



**WATERPROOF**  
tins 8/- dozen:  
less normal  
quantity discounts:  
retail price 1/-

**Johnson & Johnson**  
(GT. BRITAIN) LTD. SLOUGH & GARGRAVE

☆  
*So beautifully easy -  
so easily  
beautiful*



.. that's why  
women by the million buy  
**BRYLFOAM**

Yes, millions of women have proved for themselves the brilliant results they get with Brylfoam, the original cream shampoo. They know that Brylfoam reveals the true beauty of their hair and makes it radiantly clean; they know, too, that Brylfoam is so beautifully easy to use. That's

why Brylfoam means ready sales and quick profits for *you*. Get your share of the brisk business Brylfoam brings. Help our bigger-than-ever advertising to do an even bigger job by linking up with window and counter displays. Keep up your stocks of Brylfoam—and keep up your profits!

THE ORIGINAL CREAM SHAMPOO





# HOLD IT!

## FOR COLLECTION BY C.R.S

*— and help save dollars*

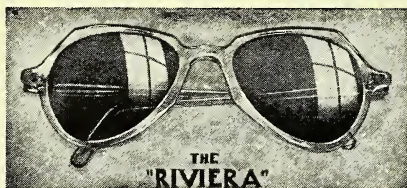
Fibreboard contains wood pulp and wood pulp costs dollars—so does the machinery that makes the containers. Saving C.R.S.-marked empties means a saving in dollar expenditure, and is a vital national duty in these difficult times.



## Container Recovery Service

**S.P.D. Limited, 3-5 Salisbury Square, London, E.C.4**

CRS 61-683



One of our new designs.  
Our **SUNGLASSES** and **CLIP OVERS**  
are notable for their outstanding  
**QUALITY, FITTING and LOW PRICE.**  
DESCRIPTIVE PRICE LIST ON REQUEST.  
Wholesale and Export enquiries invited.



MANUFACTURING OPTICIANS  
2 NETHERWOOD STREET, LONDON, N.W.6  
MAIDA VALE 9718

## When it's Sundries Think of "Ritchies"!

*A few samples from our range:*

Arch Supports	Gillettes
Hypodermic Needles (Stainless)	Personna
Dressings of all types	Dunlopillo
Electric Blankets	
Weighting Machines	Heat-Pads
Ramer Sponges	"Agrippa" Teats
Spontex Sponges	Feedrites
Pill Boxes	Dropper Bottles
Scissors of all Types	
<i>We stock Addis, Halex and Hygex Brushes</i>	
<i>Scottish distributors of Plim Hypodermic Syringes</i>	

**George B. Ritchie & Co**

249 Buchanan St. Glasgow C.1

Tel: DOUGlas 0532/3

# GOOD NEWS!

## ISOVAC

### VACUUM FLASKS AND

### VACUUM JUGS

Increased production now enables us to meet the insistent demand of the Home market for ISOVAC vacuum flasks and jugs as well as satisfy the ever growing overseas requirements. The name ISOVAC stands today as ever for first class British productions of quality and efficiency.

#### JUGS ★

771 Maroon                      Retail price 13/6

772 Metallic finish Retail price 15/6  
(Blue, green and silver)

#### FLASKS ★

551 1 Pint                      Retail price 5/3

553 2 Pint                      Retail price 10/0  
(Assorted blue, green and red)

Jugs packed  
in carton.

Flasks 1 pint 48  
carton.

Flasks 2 pint 24  
carton.

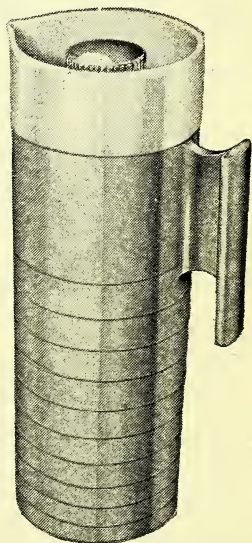
Obtainable from your usual wholesale Chemist but in case of  
difficulty please write to:—

**L. REES & CO. LTD.**

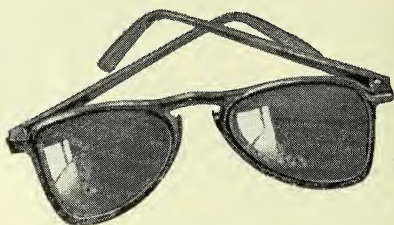
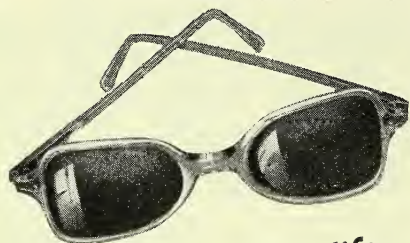
-35 WILSON STREET, LONDON, E.C.2

Telephone: Monarch 2651

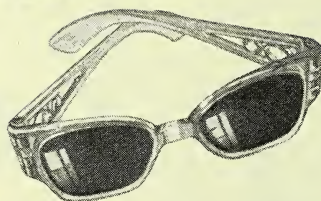
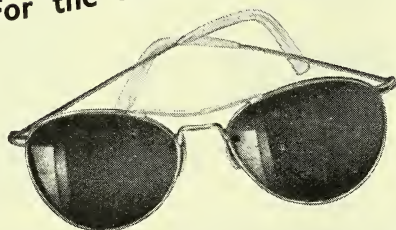
Telegrams: Elreesonla, Ave, London







For the SUN-FULL life...



Wide range of designs  
to suit all requirements

ORDER NOW—PLACE YOUR ENQUIRIES THROUGH THE USUAL WHOLESALER OR DIRECT:—  
**HIGHGATE OPTICAL MANUFACTURING COMPANY LIMITED**  
44 HATTON GARDEN, LONDON, E.C.1



## Eade's PILLS

Eade's Rheumatic and  
Gout Pills, the remedy  
with a 100 year old fame.

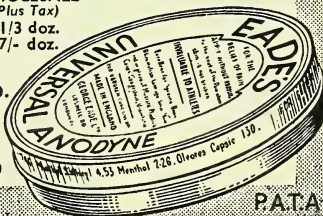
RETAIL	WHOLESALE
(Inc. Pur. Tax)	(Plus Tax)
1/7	11/3 doz.
3/9	27/- doz.
6/3	46/- doz.

## Eade's UNIVERSAL ANODYNE

Another Eade's product always in demand.

RETAIL	WHOLESALE
(Inc. Pur. Tax)	(Plus Tax)
1/7	11/3 doz.
3/9	27/- doz.

EADE'S PILLS LTD.  
(Dept. C. & D),  
232 Goswell Rd.,  
LONDON, E.C.1.  
Clerkenwell 3370



PATA

## An ALL-BRITISH FIRM

*have pleasure  
in announcing that:—*

## BRONCHOVYDRIN

*is back on the  
BRITISH MARKET*

★

**EXEMPT from PURCHASE TAX**

★

*This Inhalant for the Treatment of  
Asthma is now Obtainable from the*

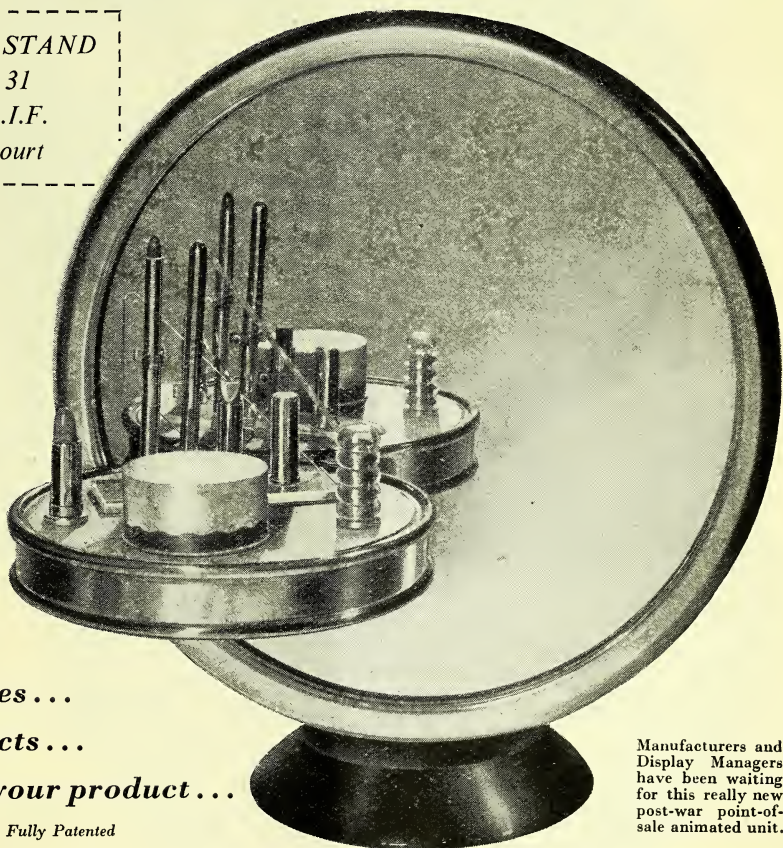
Manufacturers and Sole Distributors:—  
**BRONCHOVYDRIN (1945) LTD.**  
12 WESTWOOD ROAD • BARNES • S.W.13



# The 'MAGIC MIRROR'

*... an animated unit that mystifies and magnifies your sales*

See our STAND  
No. O-31  
at the B.I.F.  
Earls Court



*It rotates...*

*It attracts...*

*It sells your product...*

Fully Patented

Manufacturers and  
Display Managers  
have been waiting  
for this really new  
post-war point-of-  
sale animated unit.

The Belfor Magic Mirror will make your display colourful, alive, outstanding above your competitor, and is a permanent salesforce in itself, deserving a place of honour in your shop window.

The displayed object is shown, by the unit, from all angles when it turns around its own axis, and the mirror reflects it in successive phases.

The ideal display for COSMETICS, PERFUMERY, BRUSHES, COMBS, TOILET ARTICLES, PATENT MEDICINES, MEDICAL APPLIANCES, etc., etc.

For all particulars from the sole distributors :-

## BELL & FOREST LIMITED

CHAFTESBURY BUILDINGS, 5/7 DENMAN ST., PICCADILLY, LONDON, W.1

Telephone : GERRARD 2924-5-6

Telegrams : BELFOR, PICCY, LONDON




ROTTER

## Roter Gastric Ulcer Tablets

indicated for:

**GASTRIC AND DUODENAL ULCERS**

Retail prices: trial size (40) 7/11, standard size (120) 22/6, full treatment size (640) £5. 12. 6.

*Obtainable from the Importers:*

**F.A.I.R. Laboratories Limited**  
183 Heath Road, Twickenham

*Manufactured by:*  
**Pharmaceutische Fabriek "Roter"**  
Hilversum, Holland





MAY 8-19  
Stand B42  
OLYMPIA

SEE OUR EXHIBIT



**JOHN & E. STURGE LIMITED**

1 WHEELYS ROAD • BIRMINGHAM 15

*Manufacturers of fine Chemicals since 1823*



# *Grip tight* RUBBER FEEDTEATS *sell on sight*



Made from best quality transparent Latex, scientifically pierced for correct feeding. Available in 15 different shapes, hygienically packed in transparent wrappers and attractively carded and boxed. Can be sterilised repeatedly without losing shape. Guaranteed three years store life in any climate.

LEWIS WOOLF LTD. 144 Oakfield Road,

Birmingham 29, England

Long established, well known, always a steady seller and still gaining favour, BOX'S PILLS are a sure and continuous source of profit to the chemist.



**Box's Pills**  
FOR INDIGESTION

P.A.T.A. 1/5, 3/4, 5/5  
RETAIL 13/4, 24/2  
PRICES INCLUDING P.T.A.

W. H. ROX, 161 King St. Plymouth

## COLCHICINE

B.P., U.S.P.

For use in Treatment  
of

GOUT, ASTHMA, CEREBRAL  
CONGESTION and URAEMIA

## d-Tubocurarine Chloride

The Pure Crystalline Alkaloid  
for securing Muscular Relaxation  
in Surgical Operations  
and Shock Therapy.

Manufactured by:

**PAL CHEMICALS LTD.**  
PALORIT HOUSE, 11 HARROW RD., LONDON, W.2  
PADDINGTON 8261

THEY'RE *New* THEY'RE *Needed* THEY'RE *Nationally Advertised*

**The two napkins for babies—  
one Gauze, one Terry—in one  
hygienic pack**

*Nippinap* REGD.  
**PAIRED SQUARES**

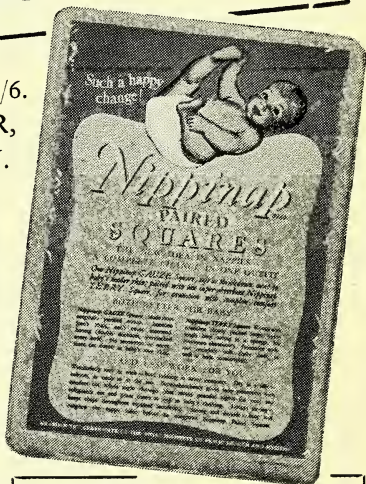
EACH PACK YIELDS YOU 1/6.

EVERY BABY NEEDS, ALTOGETHER,  
1½ DOZEN PACKS—27/- PROFIT FOR YOU.

Every year, over 800,000 new-born babies in Britain *must* have nappies. The Drapery trade did £4,000,000 turnover in nappies last year alone. Now, you can take your share of this profitable market by stocking the finest nappies made—*Nippinap* PAIRED SQUARES. Each hygienically wrapped pack contains one *Nippinap* Gauze Square and one *Nippinap* Terry Square—a *complete change* in one outfit (Gauze and Terry are the ideal combination for giving babies protection with comfort, say Doctors, Midwives, Clinics, Nurses). Retailing at 5/11½d., *Nippinap* PAIRED SQUARES, bought a pack at a time, are a great help in solving the money problems of mothers-to-be. For mothers, they mean less work (easy to wash, easy to dry). For you—they're a first-class line (superbly finished—no ragged edges) in great demand, attractively packed (showcards and other display material come with your order), nationally advertised and carrying **no purchase tax**. Place your order TO-DAY.

Sole selling agents for the Chemist trade:

WALTER CROWE LTD., 3/4 LITTLE RUSSELL STREET, W.C.1 Chancery 7051/2.



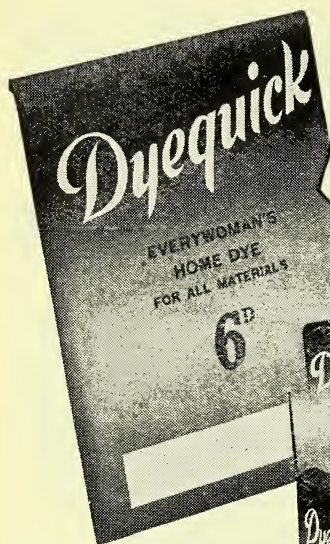
Advertising Campaign starts next month—

Large-Space Advertisements in:

Daily Mirror	My Home
Woman	Housewife
Woman's Own	Mother
Woman's Weekly	Mother & Home
Modern Woman	Nursery World
Everywoman	Baby Book

Total circulation: Over 8,750,000.





# Dyequick IS COMING!

*Look out for this new  
and beautifully presented  
home dye—it's going  
to be a big seller!*

## Dyequick MEANS BUSINESS!

*the NEW home dye  
with a brilliant future*

Write for full-colour  
illustrated folder to  
**DYEQUICK PRODUCTS LTD.,**  
122 Newgate Street, London, E.C.1.

# A GRAND NATIONAL WINNER Rod-Antu

## GIVING REMARKABLE RESULTS

1/6 and 5/- per tin

Cost 12/- and 40/-  
per doz.

10% discount on  
3 doz. Small or  
1 doz. Large.



**RODMILL CHEMICAL CO., LTD., LIVERPOOL, 3**

**ALFRED FENNINGS · HORSHAM · SUSSEX**



# CurAcho

(CURE-ACHE-O)

## THE OIL-LESS EMBROCATION

is an embrocation you can recommend with every confidence to your customers for pains of Rheumatic origin, sprains, etc. Curacho is a great favourite with the ladies as it is oil-less, non-greasy and stainless and has a clean and refreshing odour.

Curacho is a SPIRIT Embrocation.

Retail prices 3 oz. 2/3 6 oz. 3/9

Also Veterinary Grade supplied.

**P.A.T.A.**

From your Wholesaler or  
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to taper, shape and  
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safely... easily...  
at home!

Taperette (complete with blade)  
List Price per dozen, —26/3  
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Order today from RICHARD HUDNUT LTD  
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Grams: Hudnut Chisk London, Phone: Chiswick 7123

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# ZUBES

Regd.

# *Have you*

ordered your

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**5%**

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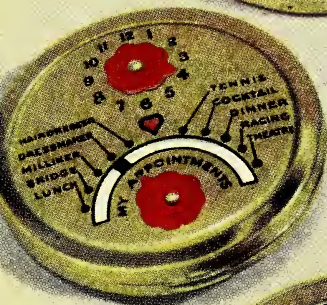
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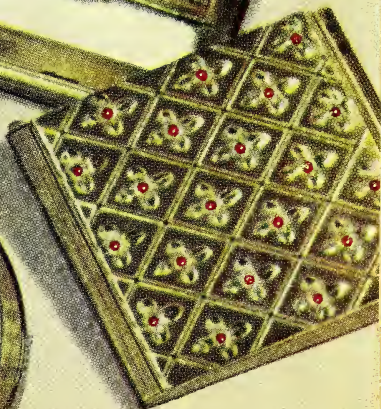
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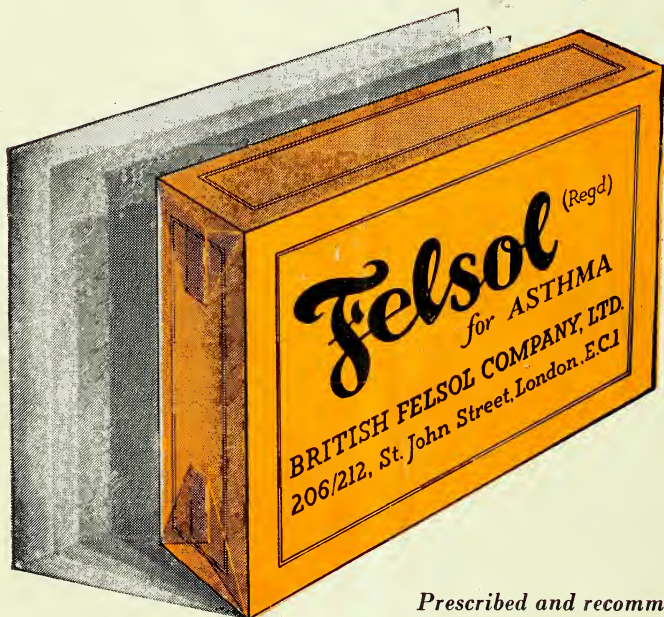


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